

Department of Surgery
The Ohio State University Wexner Medical Center

2012 Annual Report



Wexner
Medical
Center

Department of Surgery 2012 Annual Report

July 1, 2011 – June 30, 2012

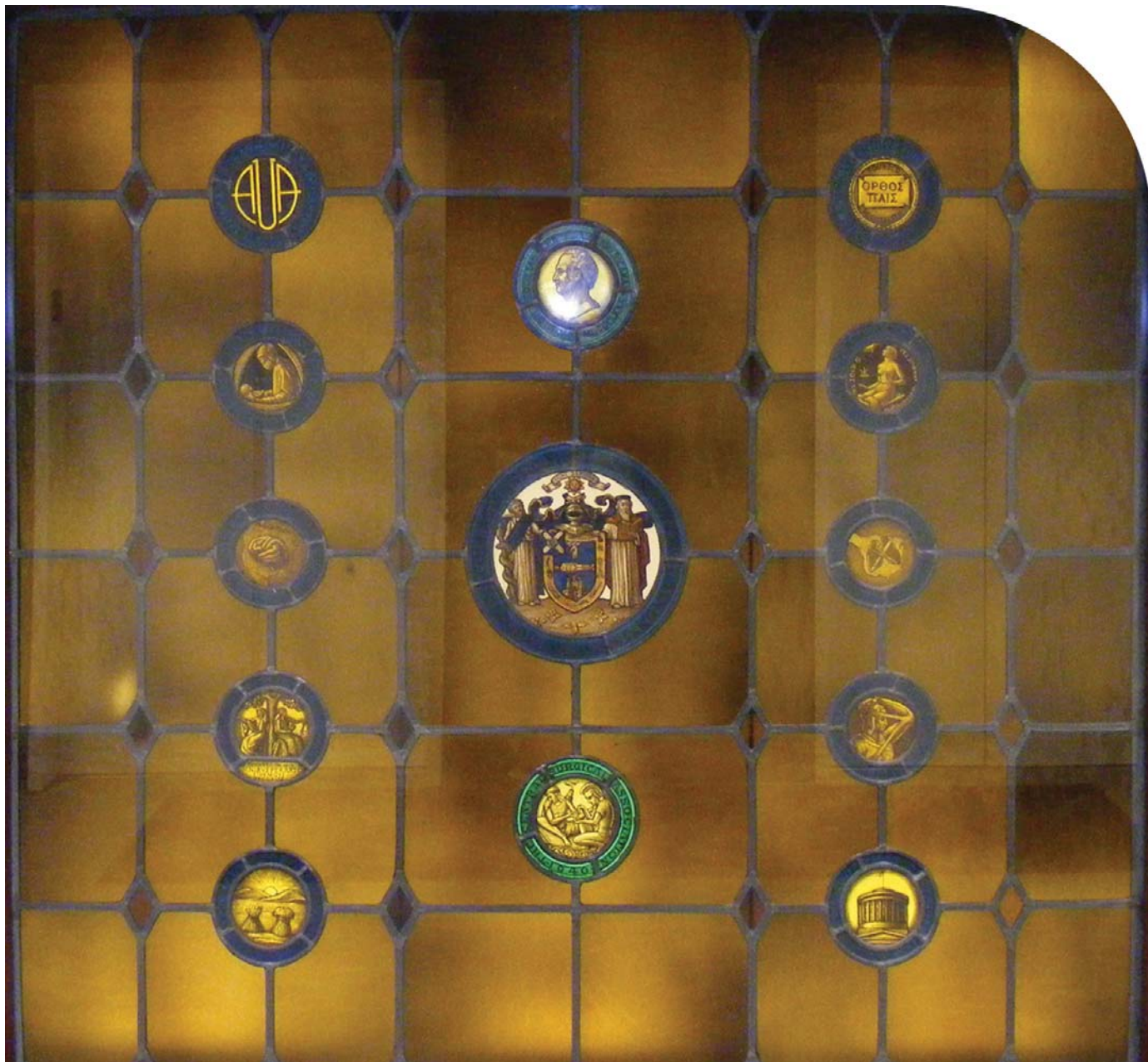
Department of Surgery
The Ohio State University Wexner Medical Center
Columbus, Ohio

395 West 12th Avenue
Columbus, OH 43210-1267

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Department of Surgery



Overview



E. Christopher Ellison, MD
Chairman, Department of Surgery

The missions of the Department of Surgery are consistent with those of The Ohio State University College of Medicine. The department's missions are the delivery of high-quality and safe patient care, the contribution to innovations in medicine through basic and translational research and clinical outcomes studies, and the education of medical students and postgraduate trainees. This report summarizes the changes and accomplishments in the department from July 1, 2011 through June 30, 2012.

Organization

The Department of Surgery comprises eight specialty divisions: Cardiac Surgery; General and Gastrointestinal Surgery; Pediatric Surgery; Surgical Oncology; Thoracic Surgery; Transplantation; Trauma, Critical Care and Burn; and Vascular Diseases and Surgery. In addition, the Center for Minimally Invasive Surgery, a multidisciplinary organization within the department, is dedicated to developing and implementing minimally invasive technologies and procedures. Beginning July 2012 the Division of Colon and Rectal Surgery will be established.

Faculty

Recruitment efforts brought ten new faculty members to the department this year. The Center for Minimally Invasive Surgery made three one-year clinical faculty appointments. The Division of General and Gastrointestinal Surgery added one faculty member. The Division of Pediatric Surgery added two faculty members, the Division of Trauma, Critical Care and Burn added one new faculty member and made one one-year clinical faculty appointment, and the Division of Vascular Diseases and Surgery appointed two new faculty members. A complete list of this year's faculty appointments begins on page 7 of this report. All eligible faculty have joined the new Faculty Group Practice of the Office of Health Sciences.

Clinical Care

The Department of Surgery provides all aspects of major surgical care. This year, the department performed 36,152 surgical procedures and received 54,458 outpatient visits. Outpatient services are available at numerous sites, including:

- The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, 300 West 10th Avenue
- Cramblett Hall Medical Clinic, 456 West 10th Avenue
- General Surgery at Knightsbridge, 4830 Knightsbridge Boulevard, Suite J
- JamesCare Comprehensive Breast Cancer Center, 1145 Olentangy River Road
- The Martha Morehouse Medical Plaza, 2050 Kenny Road
- Nationwide Children's Hospital, 700 Children's Drive
- The Ohio State University Medical Center, 450 West 10th Avenue
- The Ohio State University Medical Center Services, 770 Kinnear Road
- The Richard M. Ross Heart Hospital, 452 West 10th Avenue
- University Hospital East, 1492 East Broad Street

In addition we have outreach programs in vascular surgery in Ashland, Bellefontaine, London, Marysville, Upper Sandusky, and Washington Court House, Ohio.

Research

Research efforts continue to focus on three major areas: wound healing, vascular biology and transplantation, and tumor biology. Additionally, under the leadership of Chandan Sen, PhD, Vice-Chair of Research, the Center for Regenerative Medicine and Cell-Based Therapies was established in March 2012. The center is a collaboration of seven Ohio State University colleges — the College of Medicine, the College of Engineering, the College of Dentistry, the College of Nursing, the College of Veterinary Medicine, the College of Arts and Sciences, and the College of Pharmacy. Joining in this endeavor is the Battelle Memorial Institute, the world's largest, independent research and development organization and Nationwide Children's Hospital. The leadership of the Center includes key faculty from all seven of the colleges and Nationwide Children's Hospital. Brent Toto, MHA started in March as the Administrative Director. The Center's mission is identifying and partnering faculty and industry with interest and passion towards advancing regenerative medicine within its four pillars – tissue engineering, cell based therapies, imaging and wound, and burn and trauma.

This year, research funding awarded through The Ohio State University Research Foundation and the Nationwide Children's Research Institute to principal investigators in the Department of Surgery totaled more than \$7.7 million. Federal funding was more than \$4.0 million, or 52 percent of total funding. Funding from industry was more than \$1.5 million or 20 percent of the total. Non-federal funding was more than \$2.1 million, or 28 percent of the total.

Education

Nineteen residents and fellows completed their training programs this year. Six went on to community practice, seven to further training, nine to academic appointments. Over two hundred medical students from the College of Medicine perform clinical rotations on our surgical services. We re-engineered our honors program in surgery, making it practical and up-to-date for our students entering careers in surgery. Sixteen students completed the surgical honors program. Nineteen students entered surgical training this academic year.

Department Statistics

Full-Time Faculty	87
Residents and Fellows	66
ACGME-Accredited Surgical Residencies	2
ACGME-Approved Specialty Certification Programs	3
Approved Specialty Fellowships	7
OR Procedures	35,838
Outpatient Visits	53,025
Admissions	10,646
Patient Days	63,237
Average Length of Stay (Days)	6.00

Department Administration

E. Christopher Ellison, MD

Chairman

W. Scott Melvin, MD

Senior Vice Chairman for Administrative and Academic Affairs

Mark W. Arnold, MD

Vice Chairman for Surgical Education

Chandan K. Sen, PhD

Vice Chairman for Research

Steven M. Steinberg, MD

Vice Chairman for Clinical Affairs and Quality

Jerome A. Johnson, PhD

Administrator

K. Christopher Kaiser

Chief Operating Officer, OSU Surgery, LLC



Ellison



Melvin



Arnold



Sen



Steinberg



Johnson



Kaiser

Administrative Staff

Mark Bishop

Systems Analyst, Surgery Information Systems

Mark Dickman

Director, Surgery Information Systems

Peggy Ellis

Research Coordinator

Elizabeth Hanson

General Surgery Residency Manager

Megan Guth

Systems Analyst, Surgery Information Systems

K. Christopher Kaiser

Chief Operating Officer, OSU Surgery, LLC

Dennis Mathias

Publications Editor

Richard Meyers

Fiscal Associate

Anna Patterson

General Surgery Residency Coordinator

Connie Roberson

Fiscal Manager

Donna Sampsill

Executive Assistant to the Chair and Vice Dean for Clinical Affairs

Lynnsay Sinclair

Student Coordinator

Maxine Vargas

Human Resources Administrator

Laurie Ward

Administrative Assistant to the Chairman

Division Chiefs

Gail E. Besner, MD

Pediatric Surgery

Jonathan I. Groner, MD

Pediatric Surgery Interim Chief, September 2010 – June 2012

William B. Farrar, MD

Surgical Oncology

Mitchell L. Henry, MD

Transplantation

Robert S. D. Higgins, MD, MSHA

Cardiac Surgery

W. Scott Melvin, MD

General and Gastrointestinal Surgery

Patrick Ross, Jr, MD, PhD

Thoracic Surgery

Steven M. Steinberg, MD

Trauma, Critical Care, and Burn

Patrick S. Vaccaro, MD

Vascular Diseases and Surgery

Faculty Appointments

H. Tracy Davido, MD, MHSc.

Clinical Assistant Professor of Surgery
Division of Trauma, Critical Care, and Burn

BA: Cleveland State University, Cleveland, Oh., 1992

MD: University of Pittsburgh, Pittsburgh, Pa., 2002

Specialty Training: The Ohio State University, Columbus, Oh

Appointment: 2011

Specialty Interests: Surgical critical care, trauma and acute care surgery

Research Interests: Operating room efficiency, perioperative complication prevention and management



Davido

Katherine J. Deans, MD, MHSc.

Assistant Professor of Surgery
Division of Pediatric Surgery

BA: Wellesley College, Wellesley, MA, 1994

MD: Dartmouth Medical School, Lebanon, NH, 1998

MHSc: Duke University School of Medicine, Durham, N.C., 2005

Specialty Training: University of Pennsylvania School of Medicine,
The Children's Hospital of Philadelphia, Philadelphia, PA.

Appointment: 2012

Specialty Interests: Congenital anomalies, thoracic surgery, minimally invasive surgery

Research Interests: Comparative effectiveness of surgical interventions



Deans

Jeffrey L. Eakin, MD

Clinical Assistant Professor of Surgery
Division of General and Gastrointestinal Surgery

BA: Miami University, Oxford, Oh., 2001

MD: The Ohio State University, Columbus, Oh., 2006

Specialty Training: The Ohio State University, Columbus, Oh.

Appointment: 2011

Specialty Interests: Laparoscopic, bariatric and robotic surgery

Research Interests: Surgical education



Eakin

Daniel P. Geisler, MD

Associate Professor of Clinical Surgery
Division of Colorectal Surgery

BA: Austin College, Sherman, Tx., 1990

MD: St. Louis University, St. Louis, Mo., 1996

Specialty Training: Residency in general surgery, University of Oklahoma, Tulsa, Ok.; residency in colon and rectal surgery, St. Vincent Health Center, Erie, Pa.; fellowship in minimally invasive surgery, The Lankenau Hospital and Institute for Medical Research, Wynnewood, Pa.

Appointment: 2012

Specialty interests: Minimally invasive colorectal surgery, inflammatory bowel disease, colon and rectal cancer



Geisler

Mounir J. Haurani, MD

Assistant Professor of Clinical Surgery
Division of Vascular Diseases and Surgery

BS: University of Michigan, Ann Arbor, Mi., 1998

MD: Wayne State University School of Medicine, Detroit, Mi., 2002

Specialty Training: Residency in general surgery and research fellowship, Henry Ford Hospital, Detroit, Mi.; clinical and research fellowships, Massachusetts General Hospital and Harvard Medical School, Boston, Ma.

Appointment: 2011

Specialty Interests: Aneurysms, carotid disease, peripheral vascular disease, endovascular revascularization

Research Interests: Surgical education, clinical outcomes reactive oxygen species, neointimal hyperplasia



Haurani

Larry M. Jones, MD

Associate Professor of Clinical Surgery; Director, Burn Center
Division of Trauma, Critical Care, Burn

BA: Indiana University, Bloomington, In., 1974

MD: Indiana University School of Medicine, Bloomington, In., 1977

Specialty Training: Residency in surgery, Miami University, Dayton, Oh.

Appointment: 2011

Specialty Interests: Acute burn care, wound care, trauma surgery

Research Interests: Advanced technology applications in burn care



Jones

Maria E. Litzendorf, MD, MA

Assistant Professor of Surgery

Division of Vascular Diseases and Surgery

BA: College of William and Mary, Williamsburg, Va., 1995

MD: Eastern Virginia Medical School, Norfolk, Va., 2003

MA: College of William and Mary, 1999

Specialty Training: Residency in general surgery, Boston University, Boston, Ma.; fellowship in vascular surgery, The Ohio State University, Columbus, Oh.

Appointment: 2011

Specialty Interests: Peripheral vascular disease, venous disease, aneurysms

Research Interests: Peripheral vascular disease, venous disease



Litzendorf

Brendan M. Marr, MD

Clinical Assistant Professor of Surgery

Division of General and Gastrointestinal Surgery

BA: Purdue University, West Lafayette, In., 2002

MD: Indiana University, Indianapolis, In., 2006

Specialty Training: Michigan State University, Lansing, Michigan

Appointment: 2011

Specialty Interests: Minimally invasive surgery, bariatric and metabolic surgery, robotic surgery

Research Interests: Foregut and bariatric surgery



Marr

Peter C. Minneci, M.D., MHsc.

Assistant Professor of Surgery

Division of Pediatric Surgery

BS: Cornell University, Ithaca, NY, 1994

MD: New York University School of Medicine, New York, NY, 1998

M.H.Sc: Duke University School of Medicine, Durham, NC, 2005

Specialty Training: Massachusetts General Hospital, Boston MA; National Institutes of Health, Bethesda, MD; The Children's Hospital of Philadelphia, Philadelphia, PA.

Appointment: 2012

Specialty Interests: Minimally invasive surgery, thoracic Surgery

Research Interests: Clinical research including surgical outcomes and clinical trials of congenital and acquired pediatric surgical diseases.



Minneci

Kashif A. Zuberi, MBBCh

Clinical Assistant Professor of Surgery

Division of General and Gastrointestinal Surgery

MBBCh: The Royal College of Surgeons in Ireland, Dublin, Ireland, 2002

Specialty Training: General surgery residency, Johns Hopkins Hospital, Baltimore, Md.; general surgery residency, Marshfield Clinic/St. Joseph's Hospital, Marshfield, Wi.

Appointment: 2011

Specialty Interests: Minimally invasive surgery, surgical endoscopy

Research Interests: Cancer biology, health care policy



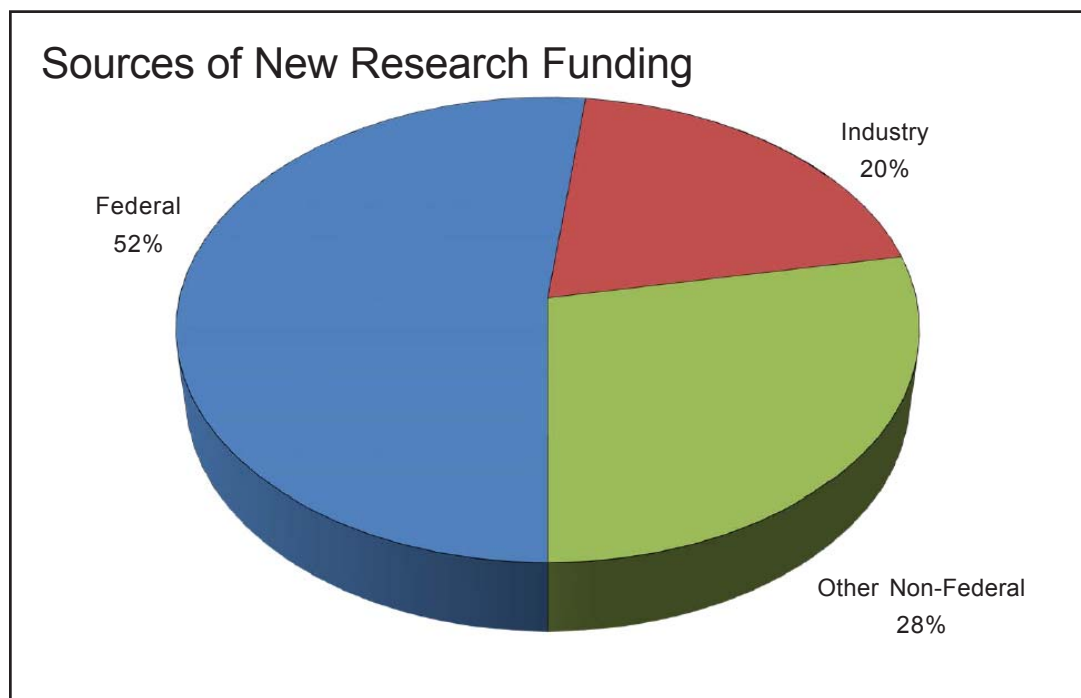
Zuberi

New Research Funding

During fiscal year 2011–2012, research funding awarded through The Ohio State University Research Foundation and Nationwide Children's Research Institute to principal investigators in the Department of Surgery totaled more than \$7.7 million.

Federal funding was more than \$4.0 million, or 52 percent of total funding. Funding from industry was more than \$1.5 million or 20 percent of the total. Non-federal funding was more than \$2.1 million, or 28 percent of the total.

Sources	Amounts
Federal	\$4,007,752
Industry	\$1,558,729
Other Non-Federal	\$2,161,347
GRAND TOTAL	\$7,727,828



Graduate Programs in Surgery

The surgical residency programs at The Ohio State University Wexner Medical Center share a common goal: to provide an environment conducive to learning, in which physicians prepare to function as well-qualified, independent specialists in surgery.

This year, 62 residents and fellows participated in the Department's 12 residency programs, which consist of two residencies accredited by the Accreditation Council for Graduate Medical Education (ACGME), three ACGME-approved specialty certification programs, and seven approved specialty fellowships. These programs provide training in acute care surgery, cardiothoracic surgery, general surgery, minimally invasive surgery, advanced endoscopic surgery, pediatric surgery, surgical critical care, surgical oncology, transplantation, and vascular surgery.

Surgical residents at Ohio State are dedicated to learning and teaching advanced surgical techniques and procedures, and assume a major responsibility for the clinical education of medical students. The integrated and affiliated institutions of the program provide clinical resources for graduate and undergraduate surgical education. The Ohio State University Wexner Medical Center and the Department of Surgery host a variety of forums and seminars, where clinicians and researchers share their expertise and advance the profession.

Research is a vital component of the Department of Surgery's mission and an integral element of its training programs. Research efforts are focused on key areas of interest that promise to yield significant results in the understanding of disease and in the improvement of clinical care. The Department of Surgery's Office of Surgical Research promotes interdisciplinary research activity and the integration of clinical and basic science research. The Department's stature and the reputation of its researchers and clinicians enable it to garner significant funding from private industry and from federal sources, such as the National Institutes of Health.

Residency and Fellowship Program Graduates

Twenty-five residents and fellows completed training programs this year. Six went on to community practice, seven to further training, six to academic appointments, and six resume their residencies following completion of the Masters of Medical Science Program.

John A. Bach, MD

Dr. Bach completed the fellowship in surgical critical care and began practice as a surgeon and intensivist at Riverside Methodist Hospital in Columbus, Ohio.

Shelly Bansal, MD

Dr. Bansal completed the fellowship in surgical critical care and will continue the fellowship in cardiothoracic surgery at Ohio State.

Dana A. Booth, MD

Dr. Booth completed the fellowship in cardiothoracic surgery and is an attending cardiothoracic surgeon at Presbyterian Hospital in Albuquerque, New Mexico.

Helena M. Crowley, MD, PhD

Dr. Crowley completed the fellowship in pediatric surgery and began an appointment as assistant professor, Department of Surgery and Pediatric, Drexel University College of Medicine, St. Christopher's Hospital for Children, Philadelphia, Pennsylvania.

H. Tracy Davido, MD

Dr. Davido completed the fellowship in acute care surgery and began an appointment as assistant professor of surgery, Division of Critical Care and Acute Care Surgery, University of Minnesota, Minneapolis, Minnesota.

Mary E. Dillhoff, MD, MS

Dr. Dillhoff completed the residency in general surgery and began a fellowship in surgical oncology at the Memorial Sloan Kettering Cancer Center in New York, New York.

Jeffrey L. Eakin, MD

Dr. Eakin completed the fellowship in minimally invasive surgery. His practice is undetermined at time of publication.

David C. Evans, MD

Dr. Evans completed the residency in general surgery and began an appointment as assistant professor of surgery in the Division of Trauma, Critical Care and Burn at Ohio State.

Rachel C. Forbes, MD

Dr. Forbes completed the fellowship in transplant surgery and began a fellowship in surgical critical care at Ohio State.

Kristan D. Guenterberg, MD, MS

Dr. Guenterberg completed the residency in general surgery and entered private practice at Kitsap General Surgery, Bremerton, Washington.

Joseph H. Habib, MD

Dr. Habib completed the fellowship in vascular surgery and began an appointment as assistant professor of surgery at the University of Florida - Jacksonville.

Lisa M. Haubert, MD, MS

Dr. Haubert completed the residency in general surgery and began a fellowship in colorectal surgery at the Cleveland Clinic Florida, Weston, Florida.

Jon C. Henry, MD, MS

Dr. Henry completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

Natalie Beckman Jones, MD, MS

Dr. Jones completed the fellowship in surgical oncology and began practice as a surgical oncologist at Riverside Methodist Hospital and Dublin Hospital in central Ohio.

Alistair J. Kent, MD, MPH

Dr. Kent completed a master of public health degree and is continuing the residency in general surgery at Ohio State.

John J. Leskovan, DO

Dr. Leskovan completed the fellowship in surgical critical care and began an appointment as assistant professor of surgery at the Ohio University Heritage College of Osteopathic Medicine at Mercy St. Vincent Medical Center in Toledo, Ohio.

Eric A. Luedke, MD, MS

Dr. Luedke completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

Brendan M. Marr, MD

Dr. Marr completed the fellowship in minimally invasive surgery and began an appointment as assistant professor of surgery at West Virginia University in Morgantown, West Virginia.

Megan E. McNally, MD, MS

Dr. McNally completed the fellowship in surgical oncology and began an appointment as assistant clinical professor of surgery at the University of Missouri-Kansas City in Kansas City, Missouri.

Peter N. Nau, MD, MS

Dr. Nau completed the residency in general surgery and began a fellowship in minimally invasive surgery at Massachusetts General Hospital in Boston, Massachusetts.

Karen C. Nelson, DO

Dr. Nelson will complete the fellowship in cardiothoracic surgery on October 31 and will entered private practice at Holzer Health Systems in Gallipolis, Ohio.

Laura A. Peterson, MD, MS

Dr. Peterson completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

Alicia C. Thomas, MD, MS

Dr. Thomas completed the residency in general surgery and began a fellowship in colorectal surgery at Grant Medical Center in Columbus, Ohio.

Jonathan R. Wisler, MD, MS

Dr. Wisler completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

Kashif A. Zuberi, MBBCh

Dr. Zuberi completed the fellowship in advanced therapeutic endoscopy and gastrointestinal surgery and began a fellowship in advanced minimally invasive surgery at The Johns Hopkins Hospital in Baltimore, Maryland.

Annual Surgery Awards Banquet

Outstanding faculty and housestaff were honored along with the 2011–2012 graduates of the Department of Surgery's training programs on June 16 at the Department's annual Graduation & Awards Banquet.

Dr. Peter N. Nau, chief resident in general surgery, was named Resident of the Year by the Surgery faculty.

Dr. Kara M. Keplinger and **Dr. Sara A. Mansfield** tied for Intern of the Year as voted by the Surgery faculty.

Lisa A. Parks, CNP, was named Surgical Nurse of the Year by the chief residents in general surgery.

Teaching Awards

Dr. Ellen A. Carraro, chief resident in general surgery, was chosen by the medical students to receive the Resident Teaching Award.

Dr. Thomas A. Pham, was chosen by the PGY4 & 5 general surgery residents to receive the Outstanding Surgical Resident Award, sponsored by the Columbus Surgical Society. Dr. Pham was also chosen by the Pediatric Surgery faculty to receive the Pediatric Surgery Resident Award.

Dr. Syed G. Husain, assistant professor of clinical surgery in the Division of General and Gastrointestinal Surgery, was selected by the medical students to receive the Michael J. Walker, M.D., Faculty Teaching Award.

Dr. Carl R. Schmidt, assistant professor of clinical surgery in the Division of Surgical Oncology, was chosen by Department residents and fellows to receive a Faculty Teaching Award.

Dr. Brendan M. Marr, fellow in minimally invasive surgery, was selected by the general surgery residents to receive a Fellow Teaching Award.

Dr. Anthony T. Gerlach, assistant professor - clinical, Department of Pharmacy, was selected by the chief residents in general surgery to receive the John L. Robinson Award, for outstanding teaching by faculty or staff from another department.

Research Awards

Six trainees received awards for outstanding research presentations made at the Department of Surgery's 17th Annual Research Conference held May 25 at The Ohio State University Medical Center.

Andrew Theiss, a research associate, received the first-place award for the best poster presentation, titled "Immunologically Modified FETs for Protein Detection in Physiologic Buffers." Faculty advisor: Dr. Gregg Hadley.

Jaideep Banerjee, a graduate research associate, received the Intern Award for his abstract, titled “MicroRNA-1 induction in ischemic wounds attenuates keratinocyte migration via an aquaporin-3 mediated pathway.” Faculty advisor: Dr. Chandan Sen.

Dr. Megan McNally, a surgical oncology fellow, received the first-place award for her research presentation, titled “Concomitant dysregulation of miR-151-3p and miR-126 correlates with improved survival in resected cholangiocarcinoma.” Faculty advisor: Dr. Mark Bloomston.

Dr. Jon Wisler, a general surgery resident, received the second-place award for his research presentation, titled “Targeting Aberrant Epigenetic Modification by Circulating Microvesicles During Sepsis.” Faculty advisor: Dr. Clay Marsh.

Dr. Sara Martin del Campo, a general surgery resident, tied for the third-place award for her research presentation, titled “MicroRNA Profiling of Problematic Melanocytic Lesions.” Faculty advisor: Dr. William Carson, III

Dr. Mika Matthews, a general surgery resident, tied for the third-place award for her research presentation, titled “HB-EGF Protects the Intestines from Radiation Therapy-Induced Intestinal Injury.” Faculty advisor: Dr. Gail Besner.

Dr. Rachael Sullivan, a general surgery resident, received the James D. King Research Award for her research presentation, titled “Serum Biomarkers as Prognostic Indicators and Measures of Treatment Effect in Patients Undergoing Transarterial Chemoembolization for Unresectable Hepatocellular Carcinoma.” Faculty advisors: Dr. Carl Schmidt and Dr. Samson Jacob.

Medical Student Awards

Department of Surgery faculty honored five senior medical students for exceptional performance and dedication to surgery.

Jordan Brown received the Barton Williams Graduation Award, a merit scholarship for a graduating fourth-year student in the College of Medicine who intends to complete a surgical residency.

Rachel Voss received the Zollinger Award in Surgery.

Ashley Augspurger received the Jonasson Award in Surgery.

Nicholas McKenzie received the Carey Award in Surgery.

Aevan McLaughlin received the Ferguson Award in Surgery.

Recognitions

Dr. Doreen M. Agnese, was promoted to associate professor of surgery-clinical, October 1, 2011.

Dr. Jennifer Aldrink, assistant professor, Division of Pediatric Surgery, is the recipient of a grant from the NCH Clinical and Translational Research Program to study the “Use of Ketorolac in Surgical Neonates.” Dr. Aldrink will collaborate with our neonatologists in conducting this important work. It will have implications for all surgical neonates. The Clinical and Translational Research Program is an excellent source of seed funding for junior faculty and can be used to generate preliminary data allowing for competitive applications for extramural funding programs. Dr. Aldrink is one of our busiest and most productive clinical surgeons but has been able to demonstrate to the review committee that she is able to conduct this research in parallel with her patient care efforts.

Members of the national Organ Procurement and Transplantation Network (OPTN) have elected **Dr. Kenneth A. Andreoni**, associate professor of surgery, Division of Transplantation as vice president/president elect. Dr. Andreoni will also chair the Membership and Profession Standards Committee (MPSC). His term as vice president begins July 2012, then as president starting July 2013. The OPTN brings together medical professionals, transplant recipients and donor families to develop national organ transplantation policy. The OPTN is managed by the United Network for Organ Sharing (UNOS) under contract with the U.S. Department of Health and Human Services, Health Resources and Services Administration, Division of Transplantation. The OPTN Board of Directors also serves as the Board of Directors for UNOS.

Dr. Gail E. Besner, professor of surgery and chief of the Division of Pediatric Surgery was presented with the Denis R. King Teacher of the Year Award, Nationwide Children’s Hospital, and she was named the H. William Clatworthy Professor of Pediatric Surgery. Dr. Besner was also selected to serve as chair of the Advocacy and Liaison Committee, American Academy of Pediatrics and is a member-at-large of the American Pediatric Surgery Association Foundation .

Dr. Donna A. Caniano, who retired as professor and chief of the Division of Pediatric Surgery, was awarded professor emeritus status by The Ohio State University College of Medicine.

Dr. Elizabeth Davies, clinical assistant professor of surgery, Division of Transplantation, completed a Master in Business Administration with a concentration in Health Care Administration at Benedictine University in Lisle, Illinois in October, 2011. Her degree was awarded in a ceremony in December, 2011.

Dr. Daniel S. Eiferman, assistant professor of surgery, Division of Trauma, Critical Care and Burn, was awarded the OSU Department of Emergency Medicine Outstanding Contribution award on June 22, 2012 at Wexner Medical Center at The Ohio State University, Columbus OH. This is the second year in a row in which Dr. Eiferman was honored with this award. Dr Eiferman was also appointed chair of Clinical Quality and Patient Safety Committee, July 1, 2012.

Dr. Elmahdi A. Elkhmmas, professor of clinical surgery, Division of Transplantation, was featured in The Ohio State University Wexner Medical Center, Journey to Innovation video that highlights 12 outstanding foreign-born physicians inspiring stories and contribution to medicine, Columbus Ohio, April 4, 2012.

Jodi and Stan Ross have generously donated funds to establish the **William Farrar, MD**, Lectureship. The Ross' wished to honor Dr. Farrar because of the care and treated he provided to two family members. The lectureship will provide community education opportunities, raise awareness about breast cancer and provide physicians with continuing medical education on current research, clinical trials and therapies. Dr. Farrar is professor of surgery, chief of the Division of Surgical Oncology and director of the Stephanie Spielman Comprehensive Breast Center.

Dr. Mark E. Galantowicz, was promoted to professor of surgery - clinical, Division of Cardiac Surgery, October 1, 2011

Dr. Alan Harzman, assistant professor of clinical surgery, Division of General and Gastrointestinal Surgery, has been selected to attend the American College of Surgeons (ACS) Surgeons as Leaders course. This course is designed to provide surgeons with an understanding of leadership at all levels and provide them with the skills that are essential to effective leadership. Dr. Harzman has served as faculty director of the Med I-IV Learning Communities and was selected by surgical residents as Teacher of the Year in 2008, and medical students presented him with The Michael J. Walker Teaching Award in 2009. The ACS Surgeons as Leaders course is held in Chicago, Illinois, May 6-9, 2012.

Kathleen Hateley, a first year medical student was awarded a COM Medical Student Research Scholarship (MDSRS) funded by the Bennett Scholarship. She will be involved in a research project entitled: "Determination of biomedical parameter variability as a predictor of clinical outcomes in brain trauma patients" Dr. Stanislaw Stawicki will serve as project mentor.

Dr. Mounir Haurani, assistant professor of surgery, Division of Vascular Diseases and Surgery, has been accepted into membership the Ohio State Medical Association

Dr. Jeffrey W. Hazey, associate professor of surgery in the Division of General and Gastrointestinal Surgery, was also selected to receive the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) 2012 Brandeis Award. It is unique for a surgery department to have 2 awardees in one year.

Dr. Larry M. Jones, associate professor of clinical surgery; director, Burn Center, Division of Critical Care, Trauma and Burn, was appointed to State Faculty for Advanced Trauma Life Support (ATLS).

Dr. Denis R. King, was promoted to clinical professor of surgery, Division of Pediatric Surgery, October 1, 2011.

Dr. David E. Lindsey, assistant professor of clinical surgery, Division of Critical Care, Trauma and Burn, was appointed to be the Associate Academic Program Director for part One of the Lead.Serve.Inspire Curriculum in October 2011.

Dr. David E. Lindsey was awarded the Class of 2012 Outstanding Clinical Teaching Award at Mershon Auditorium, The Ohio State University, Columbus, Ohio, June 8, 2012.

Dr. Sidney F. Miller, professor of surgery, Division of Trauma, Critical Care, and Burn, was appointed to the Care for the Critically Injured Burn Patient Peer Review Panel of the American Institute of Biological Sciences.

Dr. Susan D. Moffatt-Bruce, was promoted to associate professor of surgery, with tenure, Division of Thoracic Surgery, October 1, 2011.

Dr. Benedict C. Nwomeh, associate professor of clinical surgery, Division of Pediatric Surgery, passed the general surgery recertification exam.

Dr. Benedict C. Nwomeh accepted appointment to the Editorial Board, *Pediatric Surgery International*, 2012-2015

Dr. Benedict C. Nwomeh accepted appointment as Chair, Committee on Resident Education (CORE), American Academy of Pediatrics, Surgical Section, to develop a surgery curriculum for pediatricians and pediatric residents.

Dr. Benedict C. Nwomeh accepted appointment to a 2-year term by the World Health Organization, Global Initiative for Emergency and Essential Surgical Care (GIEESC), as Chair, Surgical Missions and Partnerships Coordinating Committee, 2011-2013

The **Ohio State University Burn Center's** outreach project, "Burn injury assessment, treatment, and recovery education: a worldwide partnership," was selected from among 28 outstanding projects as the Ohio State University's representative for the 2012 Regional Outreach Scholarship/W.K. Kellogg Foundation Engagement Award and the C. Peter Magrath University/Community Engagement Award.

Dr. Chittoor B. Sai-Sudhakar, was promoted to associate professor of surgery, Division of Cardiac Surgery, October 1, 2011.

Dr. Bhagwan Satiani, professor of clinical surgery, Division of Vascular Diseases and Surgery, was elected president of the South Asian American Vascular Society for 2011-2012 at its annual meeting on June 16 in Chicago. The society was formed to maintain the identity of members from South Asia to promote the dissemination of knowledge and provide a forum for scientific, educational, cultural, charitable and social interaction among the members.

Dr. Bhagwan Satiani was featured in The Ohio State University Wexner Medical Center, Journey to Innovation video that highlights 12 outstanding foreign-born physicians inspiring stories and contribution to medicine, Columbus Ohio, April 4, 2012.

Dr. William L. Smead, who retired as the Luther M. Keith professor with the Division of Vascular Diseases and Surgery was awarded professor emeritus status by The Ohio State University College of Medicine.

Dr. Jean E. Starr, associate professor of clinical surgery, Division of Vascular Diseases and Surgery, was invited to lead a new initiative by the Heart and Vascular Center as chair of the Vascular Operations Council Committee. This committee was developed to allow clinicians to drive operational improvements at Ohio State. The focus will be on quality, internal business and safety; finance, and patient satisfaction.

Dr. Jean E. Starr assisted Edheads in creating Aortic Aneurysm Surgery on-line education module.

Dr. Jean E. Starr has been appointed to serve as Councilor on the Midwestern Vascular Surgical Society Executive Council, November 2011 – November 2014

Dr. Stanislaw P. Stawicki, assistant professor of surgery, Division of Trauma, Critical Care, and Burn, was appointed as a member of The Ohio State University Human Subjects (biomedical) Institutional Review Board.

Dr. Stanislaw P. Stawicki gave the Key Note Address at the 7th Annual Indo-US Emergency Medicine Summit (INDUS). New Delhi, India, September 30, 2011.

Dr. Stanislaw P. Stawicki was inaugural speaker of Indian Network for Critical Illness and Injury Translational Trial Experts (INCITTE). New Delhi, India, October 1, 2011.

Dr. Richard Schlanger, associate professor of clinical surgery; clinical director, Center for Advanced Wound Management and chief, Surgical Services, University Hospital East, was recognized as a CRM (crew resource management) Champion. Crew resource management (CRM) is an integrated series of on-site training sessions for leadership, physicians and staff, along with customized, site-built safety tools (e.g., checklists, communication scripts, standard protocols) to hardwire a permanent change in the workplace culture.

In the news

The *Best Doctors in America, 2011-2012* database, surgery category for central Ohio, selected OSU Department of Surgery faculty exclusively. Listed as the best are **Dr. Kenneth Andreoni**, **Dr. Ginny Bumgardner**, **Dr. Elmahdi Elkhmmas**, **Dr. E. Christopher Ellison**, **Dr. Mitchell Henry**, **Dr. W. Scott Melvin**, **Dr. Peter Muscarella**, **Dr. Bradley Needleman**, **Dr. Ronald Pelletier**, **Dr. Amer Rajab**, and **Dr. Steven Steinberg**. Also listed by surgical specialty are **Dr. Mark Arnold**, colon and rectal surgery; **Dr. Mark Galantowicz** and **Dr. Alistair Philips**, pediatric cardiac surgery; **Dr. Gail Besner**, **Dr. Denis King**, and **Dr. Steven Teich**, pediatric surgery; **Dr. William Carson**, **Dr. William Farrar**, and **Dr. William Kraybill**, surgical oncology; and **Dr. Patrick Ross**, thoracic surgery. The *Best Doctors in America* database is compiled by Best Doctors, Inc., and includes over 40,000 doctors in more than 40 medical specialties. Only the top one percent of the nation's physicians was selected as America's best.

Dr. Mark Bloomston, associate professor of surgery, Division of Surgical Oncology, was quoted in the August 12, 2011 issue of the *Columbus Dispatch* about the difficulty of early detection in pancreatic cancer, and the need for improved diagnostic methods. Currently only six percent of people who develop the disease live more than five years.

Dr. Mark Bloomston discussed new therapies for liver cancer, following the death of former heavyweight boxing champ, Joe Frazier, during a November 8, 2011 interview on WBNS-TV/10. This coverage resulted from pitching efforts by OSU Medical Center Public Affairs and Media Relations.

Dr. Mark Bloomston's isolated hepatic perfusion trial, which utilizes heated chemotherapy drug was featured in the December 9, 2011 issue of *The Columbus Dispatch* newspaper. The treatment is designed to reduce the risk of serious side-effects while directly attacking tumors.

Dr. Juan Crestanello, associate professor, Division of Cardiac Surgery, was quoted in the February 20, 2012 issue of the *Columbus Dispatch* newspaper. Dr. Crestanello said that devices such as the Edwards Sapien transcatheter valve and the CoreValve open possibilities for patients too sick for open heart surgery. He said the challenge is to select between patient who will benefit from these devices and those who will not. A recent study published in the journal *Circulation* concluded that this technology can increase life expectancy while costing about on half as much as other therapies.

Gail Davidson, disease management coordinator, Division of Surgical Oncology, will receive the 2012 ONS Excellence in Surgical Oncology Award. The ONS annual meeting attracts approximately 3,500 oncology nurses who will learn about cancer care, including survivorship, chemotherapy, symptom management, radiation, patient education and disease management. Davidson is an oncology certified nurse who holds a bachelor's of science in nursing, and practices as a registered nurse. She manages regional liver therapy, neuroendocrine cancers, and gastrointestinal cancers with a focus on improving the quality of life for gastrointestinal cancer patients.

Dr. Michael Go, assistant professor of surgery, Division of Vascular Diseases and Surgery, was interviewed by Primer Impacto. Primer Impacto is a Spanish language news-magazine show that airs on the Univision Network on stem cell therapy for critical limb ischemia. Primer Impacto (First Impact) is one of the highest-rated programs in the United States and in 12 Latin-American countries. It airs in 59 markets including all top 20 markets, October 2011.

Dr. Michael Go, Stem cell therapy may help critical limb ischemia patients. WYTV-TV (ABC), Youngstown, OH, WJBK-TV (FOX, broadcast and online), Detroit, MI, WABC-TV (ABC, broadcast and online), and WCBS-TV (CBS), New York, NY, October 2011.

Dr. Michael Go, Stem cell research for treatment of critical limb ischemia. Vascular Disease Management (15,822 monthly circulation), September 2011.

Now the province of only big, upper-tier hospitals and health systems, expensive and complex robotic surgery systems could begin making their way into medium-sized hospitals in the coming years. Whether that's a good or a bad thing for the U.S. health system — and its soaring costs to American patients — remains to be seen. **Dr. Jeffrey Hazey**, associate professor, Division of General and Gastrointestinal Surgery was quoted in the January 31, 2012 *MedCity News* article.

Dr. Mitchell Henry, professor of surgery, chief of Transplantation and president of the American Society of Transplantation, was quoted in the September 22, 2011 *Wall Street Journal* about new federal transplant guidelines, saying that they don't take into consideration the realities of organ transplantation — which is often performed in life-and-death situations with little time to spare. "We support guidelines which help to decrease disease transmission, but we want them to be evidence-based and balanced by the risks of dying without an organ transplant," said Dr. Henry.

Dr. Robert S. D. Higgins, John H. and Mildred C. Lumley Medical Research Chair; professor of surgery; chief, Division of Cardiac Surgery; and director, Comprehensive Transplant Center, was quoted in the November 17, 2011 medical news journal *MedPage Today*. The article explains that infective endocarditis outcomes are better when patients head straight to surgery rather than waiting to see if antibiotics will resolve the infection, researchers found. Early surgery yielded a composite rate of in-hospital death and clinical embolic events, such as stroke or heart attack, of only 3% compared with 23% with the conventional antibiotics-first strategy. Operative mortality wasn't increased and all-cause mortality, if anything, tended to be lower for patients who got surgery within 48 hours of definitive diagnosis.

Dr. Robert Higgins was quoted in the January 29, 2012 issue of the *Columbus Dispatch* newspaper. "A couple decades ago, it was far more common to hear someone say they had open-heart surgery. Technological and medical advances have made that a rarer occurrence. The number of open-heart surgeries has dropped over the past decade due largely to medical advances."

Dr. Larry Jones, associate professor of surgery, Trauma, Critical Care, and Burn, taped an interview for the Ohio News Network's ONN-TV about preventing burns. The program aired October 1, 2011. Brush and kitchen fires are common causes for burns this time of year. Dr. Jones also discussed new treatments in use at the OSU Burn Center.

Dr. Larry M. Jones was interviewed on burn prevention during Fire Prevention Week on WBNS-TV/ONN, October 3, 2011.

Dr. Larry M. Jones, WTVN-AM/610-Radio interview regarding risk of severe burns while cooking the holiday meal, November 24, 2011.

Dr. Larry M. Jones, WBNS-TV/ONN interview on holiday burn prevention and the use of new a new silver-infused dressing for treatment of burns, December 23, 2011.

In a guest column in the October 12, 2011 issue of the *Cleveland Plain Dealer*, **Dr. Savita Khanna**, assistant professor of surgery, explains two key findings about using oxygen that point to a low-cost way of reducing harm to the brain from a stroke. Research conducted at The Ohio State University Medical Center showed how adding oxygen during stroke can reduce damage showing the right time frame for giving oxygen and how oxygen converts toxic glutamate into fuel for brain cells.

Research scientist **Joanne Lester, CNP, PhD** who holds a doctorate of philosophy in nursing, is a co-recipient of the 2012 Oncology Nursing Society (ONS) Excellence in Survivor Advocacy Award. She received the award May 3, 2012 during the Opening Ceremonies of the Annual ONS Congress at the Ernest N. Morial Convention Center in New Orleans. Lester, who is also a certified nurse practitioner and clinical assistant professor in the OSU College of Nursing, is investigating a non-hormonal intervention in breast cancer survivors. She is also conducting a study supported by the National Comprehensive Cancer Network (NCCN) to investigate distress experienced by leukemia and breast cancer survivors. Lester, who also is an advanced oncology certified nurse, is the lead editor for a recent ONS book entitled “Cancer Rehabilitation and Survivorship: Transdisciplinary Approaches to Personalized Care.”

The Ohio State University College of Medicine Class of 2012 has selected **Dr. David Lindsey**, associate professor, Division of Trauma, Critical Care and Burn, to receive the Med IV teaching award. This award is elected by the graduating Med IV students to celebrate those who have been excellent teachers and mentors. Dr. Lindsey was honored for his contribution to the education of the Class of 2012 at the Hooding Ceremony held on Thursday, June 7, 2012. A procession across the Oval is commenced at the Faculty Club on the Ohio State Oval, proceeding to the Hooding Ceremony in Mershon Auditorium.

Dr. Marc Michalski, associate professor, Division of Pediatric Surgery, was quoted in the January 31, 2012 issue of the *Columbus Dispatch* newspaper on weight-loss surgery options for teenage children. While not an option for most overweight teens, bariatric surgery can provide marked health improvements, such as lower cardiovascular and diabetes risks, in severely obese patients.

Dr. Sidney Miller, professor, Division of Trauma, Critical Care and Burn, was selected as The Ohio State University’s representative for the 2012 Regional Outreach Scholarship/W.K. Kellogg Foundation Engagement Award and the National C. Peter Magrath University/Community Engagement Award. Established in 2006 with support from the W.K. Kellogg Foundation, the awards program seeks to identify colleges and universities that have redesigned their learning, discovery, and engagement functions to become even more involved with their communities. Five regional awardees will be chosen in early May. A cash prize of \$5,000 will be presented to each regional winner at the Association of Public and Land-grant Universities (APLU) Annual meeting in November 2012. Each regional winner will also receive \$2,500 for travel to participate in the National Outreach Scholarship Conference and to help support the production of a two minute digital “story” about their partnership to be shown at the conference and the APLU Annual Meeting. The regional winners also are provided two complimentary registrations for the National Outreach Scholarship Conference with the opportunity to compete for the national award.

Dr. Susan Moffatt-Bruce, associate professor with the Division of Thoracic Surgery, has been accepted as a fellow in the 2012-2013 Class of the Hedwig van Ameringer Executive Leadership in Academic Medicine (ELAM) Program for Women. A program of the Drexel University College of Medicine, ELAM offers an intensive one-year program of leadership training with extensive coaching, networking and mentoring opportunities aimed at expanding the national pool of qualified women candidates for leadership in academic medicine, dentistry and public health.

Wexner Medical Center earned a top-rated 'A' for its record in patient safety in a survey released Wednesday, June 6, 2012. **Dr. Susan Moffatt-Bruce**, associate professor of surgery and Chief Quality and Patient Safety Officer was interviewed by WCMH-TV4 about the achievement. The hospital safety scores were released by The Leapfrog Group, the health-care quality watchdog formed more than a decade ago by large employers.

Dr. Mounir Haurani, assistant professor of surgery, accepted an appointment as a member of the SVS Young Surgeons Advisory Committee. The appointment is for one year beginning in June 2012, renewable for up to three years.

Dr. Benedict C. Nwomeh, associate professor of clinical surgery, and director, Surgical Education, Division of Pediatric Surgery, was quoted by Reuters in the article "Appendicitis racial disparities mostly unexplained," *Chicago Tribune*, and several publications, January 18, 2012.

The Ohio State University Department of Diversity and Inclusion selected **Dr. Benedict C. Nwomeh** for the 2012 Shining Star Award. The department is a network of underrepresented residents and fellows at Ohio State's Wexner Medical center and Nationwide Children's Hospital. The network represents minorities, disabled and GLBT groups, however all residents and fellows may join. Sponsored by the Department of Diversity and Inclusion. Awardees can be nominated by any resident but voted on by all members of the group. Dr. Nwomeh has also been appointed to the Society of University Surgeons (SUS) Ethics and Conflict of Interest Committee. Dr. Nwomeh began serving a three-year term in July. The committee identifies, evaluates and resolves any conflicts of interest or potential conflicts as they relate to the SUS.

In September 2011 surgeons at The Ohio State University Medical Center performed the largest living organ chain transplantation in Ohio. A total of 12 people, 6 donors and 6 recipients, participated in an unprecedented six-way kidney transplant. The transplantations were carried out over two days by five surgeons and their teams, led by **Dr. Ronald Pelletier**, associate professor of surgery, Division of Transplantation. Chain transplants have been happening more often in the past few years and sometimes involve multiple medical centers with several patients at each hospital. A handful of two-way swaps have been performed at Ohio State. Chain donations depend on pairs of people: one who needs a kidney and one who is willing to donate but isn't a good match for that friend or relative. The basic premise for a two-way swap: Patient A and Donor B are a match, and Patient B and Donor A are a match. Once a chain gets longer, it gets more complex, both medically and logistically. The payoff is great, however, and transplant centers have been looking for the longest chains possible, Pelletier said. In this case, an anonymous donor said she'd give to anyone. The transplant team, which has collected the information of more than 20 donor/recipient pairs, got to work figuring how her generosity could reap the most benefit. After the operations all 12 patients were doing well and recovering

Dr. Amer Rajab, associate professor, Division of Transplantation, was interviewed on NBC4-TV on February 27, 2012 regarding a woman who received a kidney transplant as part of a multi-state donor chain. Four living donors were matched with four recipients.

Dr. Amer Rajab was selected as a “Health Care Hero” by *Business First* magazine. In the July 13 issue Dr. Rajab was described as having a lot of sympathy for his Type 1 diabetes patients. He dislikes that children have to monitor their diet closely, regularly draw blood to check their insulin levels and receive insulin injections. He particularly dislikes it when the disease cannot be controlled well, which can lead to patients suffering heart attacks or strokes or losing limbs to the effects of the disease. This is Dr. Rajab’s inspiration to research improved treatment options, particularly in the area of islet cell transplantation. Type 1 diabetes is typically diagnosed in children and young adults. Patients who have the disease do not produce insulin.

Bhagwan Satiani, MD, MBA, medical director of the Vascular Laboratory and professor of clinical surgery, Division of Vascular Diseases and Surgery, was appointed a member of the Ohio Commission on Minority Health by Gov. John Kasich. The Commission funds projects that are innovative, culturally sensitive and specific in their approach toward reducing the incidence and severity of diseases or conditions that are responsible for excess morbidity and mortality in minority populations. Commissioners work with offices throughout the state to eliminate disparities that result in premature disability and loss of life for many Ohioans

Dr. Bhagwan Satiani, was featured in a special video series, titled “Journey to Innovation,” that highlights physicians and faculty members at The Ohio State University Medical Center who were born in countries other than the United States.

Dr. Bhagwan Satiani, was quoted in several news publications including the September 2011 issues of *American Medical News*, *Science Daily* and *Columbus Business First*, and interviewed October 17th by WOSU Radio on the use of part-time surgeons to help reduce the predicted shortage of surgeons. Dr. Satiani said that part-time schedules may be attractive to older surgeons as an alternative to full retirement and also to young female surgeons who wish to balance raising a family with their career. In 2009 Dr. Satiani, Dr. E. Christopher Ellison and Dr. Thomas E. William co-authored the book *The Coming Shortage of Surgeons: Why They Are Disappearing and What That Means for Our Health*.

Dr. Bhagwan Satiani was featured in the article “Character of wife carried couple far.” *The Columbus Dispatch*, November 26, 2011.

Dr. Jean Starr, associate professor, Division of Vascular Diseases and Surgery, appeared on the February 28, 2012 NBC4TV news program “Matters of the Heart”. Dr. Starr discussed current treatment options for vascular disease.

Dr. Jean Starr, accepted an appointment as a member of the Society for Vascular Surgery (SVS) Postgraduate Education Committee. The appointment is for one year beginning in June 2012, renewable for up to three years. This year more than 100 SVS members volunteered for committee and council service. The Appointments Committee, comprised of Drs. Richard Cambria, Julia Freischlag and Peter Gloviczki had a wealth of talent to choose from.

Dr. Steven Steinberg, professor of surgery and chief, Division of Trauma, Critical Care, and Burn; and vice chair for Clinical Affairs, was quoted in the January 20, 2012 issue of *The Columbus Dispatch* newspaper in the article “More Gunshot Victims Survive”.

Dr. Alicia Terando, assistant professor, Division of Surgical Oncology, was quote in the April 1, 2012 *U. S. News and World Reports* “HealthDay” column on the increasing rates of melanoma among young adults. From 1970 to 2009, the incidence of melanoma has increased eight times for young women and four times for young men. “Look for moles that follow the ABCD rule,” said Dr. Alicia Terando, a surgical oncologist at Ohio State University’s James Cancer Hospital in Columbus. “‘A’ stands for asymmetry, meaning that one half of the mole is a different size than the other. ‘B’ is for border irregularity. ‘C’ stands for color. Melanomas are often brown, tan and black. The ‘D’ is for diameter. Most melanomas are greater than 6 millimeters in size. “A melanoma is the mole that stands out,” she said. “It’s the ugly duckling.”

Dr. Patrick Vaccaro, Luther M. Keith professor of surgery and division chief, accepted the invitation of the Central Surgical Association Executive Council, and Past President, Dr. Gerald Fried, to serve on the Auditing Committee.

Distinguished Visiting Professors

Ali AbuRahma MD, Chief of Vascular Surgery at the Charleston Area Medical Center, Charleston West Virginia. Open carotid endarterectomy is the gold standard for carotid stenosis, Endovascular intervention has made aorto-bifemoral bypass a relic of the past and Is post carotid endarterectomy duplex surveillance necessary? & Carotid duplex criteria post stenting. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, October 7 - 8, 2011.

Stanley W. Ashley, MD, chief medical officer at Brigham and Women’s Hospital, Frank Sawyer Professor and vice chair of the Department of Surgery, Harvard Medical School. Dr. Ashley presented the Robert M. Zollinger Lecture “Redefining General Surgery Training: The SCORE and Milestone Projects.” May 24, 2012.

Charles M. Balch, MD, PhD (h.c.), Professor of Surgery, University of Texas Southwestern Medical Center. Dr. Balch presented Surgery Grand Rounds, “Stress, Burnout and Career Satisfaction Among American Surgeons: Recognizing the symptoms and avoiding the adverse consequences.” March 8, 2012.

Robert Cerfolio, MD, Chief of the Section of Thoracic Surgery, J.H. Estes Family Endowed Chair for Lung Cancer Research at the University of Alabama at Birmingham, Birmingham, Alabama. Dr. Cerfolio presented “Future of Thoracic Surgery” at The Ohio State University Comprehensive Cancer Center Grand Rounds on April 6, 2012. Dr. Cerfolio is an internationally renowned surgeon and clinical researcher. He is recognized as a leader in research on improvements in surgical and pharmacological treatments for lung cancer and on the implementation of robotic techniques for thoracic surgery.

Daniel G. Clair MD, Chairman/Program Director and Professor of Surgery at The Cleveland Clinic, Department of Vascular Surgery lectured at the Mid-Ohio Endovascular Club meeting “Update of Fenestrated Endografts”. Ohio Union, Columbus, Ohio, January 19, 2012.

John B. Downs, MD, Professor of Anesthesiology and Critical Care Medicine, University of Florida College of Medicine, Gainesville, Florida. Dr. Downs presented Surgery Grand Rounds, “From IMV to APRV: A Natural Evolution in Protective Lung Strategy.” September 22, 2011.

Hamdy M. Elsayed-Awad MD, Assistant Professor of Anesthesia, Department of Anesthesia, The Ohio State University. Ischemic Spinal Cord Injury. Vascular Grand Rounds, Division of Vascular Diseases & Surgery, The Ohio State University, Columbus, OH June 18, 2012.

Douglas Evans, MD, The Donald C. Ausman Family Foundation Professor of Surgery and Chairman of the Department of Surgery, The Medical College of Wisconsin, Milwaukee, WI. Dr. Evans presented the Third Annual Michael J. Walker, MD, Lectureship in Surgical Oncology, “Current Controversies in the Management of Papillary Thyroid Cancer.” November 4, 2011.

Natalie Evan, MD, Sections of Vascular Medicine and Preventive Cardiology, Department of Cardiovascular Medicine, Cleveland Clinic. Medical management is the gold standard for acute iliofemoral DVT & Medical management is the gold standard for renal artery stenosis. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Ohio, October 7, 2011.

Emina H. Huang, MD, Associate Professor, Division of General/Gastrointestinal, Oncologic and Endocrine Surgery, Department of Surgery, University of Florida, Gainesville, Florida. Dr. Huang presented Surgery Grand Rounds, “Colitis and Cancer Stem Cells: Finding Your Niche.” December 15, 2011.

John M. Kane, III, MD, FACS, Associate Professor of Surgery and Chief, Melanoma Sarcoma Service, Department of Surgical Oncology, Roswell Park Cancer Institute, School of Medicine and Biomedical Science, State University of New York at Buffalo, Buffalo, NY. Dr. Kane presented Surgery Grand Rounds, “Management of Nodal and In-Transit Melanoma.” November 17, 2011.

Harubumi Kato, MD, PhD, Professor in the Department of Surgery at Tokyo Medical University, Tokyo, Japan. Dr. Kato presented “Our Experience of PDD and PDT of Lung Cancer” at the International Photodynamic Medicine Symposium at The Ohio State University Comprehensive Cancer Center on May 11, 2012. Dr. Kato is an internationally renowned scientist and global leader in the study of photodynamic therapy. In 1978, he was the first person in the world to clinically apply photodynamic therapy to the treatment of lung cancer.

Anna M. Ledgerwood, MD, FACS, Professor of Surgery, Wayne State University/Trauma Director, Detroit Receiving Hospital, Detroit, Michigan. Dr. Ledgerwood presented Surgery Grand Rounds, “Myths in Surgical Care.” April 19, 2012.

George Meier MD, Professor of Surgery, Chief and Program Director at the University of Cincinnati College of Medicine. Open surgical intervention remains the gold standard for critical limb ischemia. & Endovascular intervention is a better option for renal artery stenosis. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, OH October 7, 2011.

Rebecka L. Meyers, MD, H. William Clatworthy Visiting Professor in the Division of Pediatric Surgery, Professor of Surgery, University of Utah School of Medicine, Salt Lake City, UT. Dr. Meyers presented Pediatric Grand Rounds “Pediatric Liver Tumors: Differential Diagnoses and Update on Treatment from the Children’s Oncology Group.” September 21-22, 2011.

Vinay Nadkarni, MD. Visiting Professor in Critical Care. Endowed Chair, Pediatric Critical Care Medicine, Department of Anesthesia, Critical Care and Pediatrics, The Children’s Hospital of Philadelphia, The University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania. Dr. Nadkarni presented “Resuscitating Resuscitation- Taking it to the Streets!” February 28-29, 2012.

Kenneth A. Newell, MD, PhD, Professor of Surgery, Emory University, Atlanta, Georgia. Dr. Newell presented The Charles G. Orosz Memorial Lecture, “Tolerance: Decades of Progress and Miles to Go.” May 9, 2012.

John Ricotta MD., Chairman of the Department of Surgery at Washington Hospital Center in Washington D.C. Acute Conditions of the Thoracic Aorta: Diagnosis and Management at our Mid Ohio Endovascular Club Meeting at the Ohio Union, Columbus, OH May 16, 2012 and then on May 17, 2012 Department of Surgery Grand Rounds/Luther M. Keith Lecture Changing paradigms in vascular surgery training, Columbus, Ohio.

Ali Shahriari MD, Assistant Professor, Indiana University School of Medicine, Indianapolis, IN. Complex Endovascular Zenith Flex In-service for Division of Vascular Diseases & Surgery, January 20, 2012.

R. Matthew Walsh, MD, FACS, Professor of Surgery, Cleveland Clinic Lerner College of Medicine at Case Western University, and Chairman, Department of General Surgery, Cleveland Clinic, Cleveland, Ohio. Dr. Walsh presented Surgery Grand Rounds, “Evolution in Management of Cystic Pancreatic Neoplasms.” October 28, 2011.

Herbert J. Zeh, III, MD, Associate Professor of Surgery/Chief, Division of Gastrointestinal Surgical Oncology/University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania. Dr. Zeh presented Surgery Grand Rounds, “Improving Patient-Centered Outcome in Pancreatic Cancer.” October 6, 2011.

Integrated and Affiliated Hospitals

The Ohio State University Medical Center

Consistently recognized as one of America's best hospitals, The Ohio State University Medical Center is dedicated to patient care, research, and medical education. An institution with advanced diagnostic and therapeutic capabilities and more than 900 licensed beds, Ohio State's Medical Center is a major tertiary referral center and a Level I trauma center with a helicopter transport service. A network of primary care centers refers patients to the Medical Center's comprehensive patient management system.



The Ohio State University Medical Center

The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute

Dedicated to care of the cancer patient and to cancer research, the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute is the only freestanding cancer hospital in Ohio and is one of 16 charter members of the National Comprehensive Cancer Network. An institution with 160 licensed beds, the James is adjacent to Ohio State's Medical Center.



The James Cancer Hospital

The Richard M. Ross Heart Hospital

Home to Ohio State's nationally-ranked heart program and dedicated exclusively to the care of patients with cardiovascular disease, the Richard M. Ross Heart Hospital is a 150-bed, state-of-the-art institution offering advanced imaging and surgical technologies and patient care facilities. The hospital adjoins Ohio State's Medical Center.



The Ross Heart Hospital

University Hospital East

A full-service hospital with an emphasis on family medicine, orthopedic care, and emergency medicine, University Hospital East is located on the near east side of Columbus, six miles from Ohio State.



University Hospital East

Nationwide Children's Hospital

The fifth-largest freestanding children's hospital in the United States, Nationwide Children's Hospital provides a broad spectrum of services, from advanced neonatal intensive care and surgery to primary and secondary medical care. Children's Hospital is fully integrated with the training programs of the College of Medicine and The Ohio State University Medical Center. A Level I trauma center, Children's is located just east of downtown Columbus, five miles from Ohio State.

*Children's Hospital***Grant Medical Center**

Located in the heart of downtown Columbus, five miles from Ohio State, Grant Medical Center is a busy, respected hospital and a Level I trauma center.

*Grant Medical Center***Mount Carmel West**

An active and respected health-care provider, Mount Carmel West is located just west of downtown Columbus, five miles from Ohio State.

*Mount Carmel West***Riverside Methodist Hospital**

Known for high-quality care, Riverside Methodist Hospital is located on the north side of Columbus, four miles from Ohio State.

*Riverside Hospital*

Chairmen of the Department of Surgery

1914–1916	Dr. William J. Means
1916–1922	Dr. Verne A. Dodd (Head of Clinical Surgery)
1922–1926	Dr. Charles S. Hamilton
1927–1946	Dr. Verne A. Dodd (Head of Clinical Surgery)
1936–1952	Dr. George M. Curtis (Chairman of Surgical Research)
1946–1974	Dr. Robert M. Zollinger
1975–1986	Dr. Larry C. Carey
1987–1992	Dr. Olga Jonasson
1993–1998	Dr. Ronald M. Ferguson
1999 – present	Dr. E. Christopher Ellison

A Legacy of Leadership

A bronze bust of Dr. Edwin H. Ellison is on exhibit in the Department of Surgery's display case on the sixth floor of 395 West 12th Avenue, in recognition of the former faculty member's contributions to The Ohio State University Medical Center.

Dr. Ellison joined the faculty of the department in 1946, after completing his residency in general surgery at Ohio State, under the mentorship of Dr. Robert M. Zollinger, then chairman of the department.

Dr. Ellison and Dr. Zollinger went on to perform the landmark studies that resulted in their identification of the disorder now known as Zollinger-Ellison syndrome, a condition characterized by intractable peptic ulcers, gastric hypersecretion and hyperacidity, and the occurrence of gastrinomas of the pancreatic cells of the islets of Langerhans. Their findings were published in *Annals of Surgery* in 1955.



Bust of Dr. Edwin H. Ellison

Dr. Ellison served on the surgical faculty at Ohio State for 12 years. During this time, his achievements as a gifted clinical physician and technical surgeon, inspiring educator, and accomplished surgical investigator were important influences in the department's rapid development and success after World War II.

In 1958, Dr. Ellison accepted an appointment as professor and chairman of surgery at Marquette University School of Medicine, now the Medical College of Wisconsin, in Milwaukee.

At Marquette, Dr. Ellison trained Dr. Larry C. Carey, who later, from 1975 to 1985, would serve as professor and chairman of surgery at Ohio State.

While at Ohio State, Dr. Carey trained Ellison's son, Dr. E. Christopher Ellison, now the Robert M. Zollinger professor and chairman of surgery, associate vice president for health sciences, and vice dean of clinical affairs at The Ohio State University Medical Center.

"Dr. [Edwin] Ellison was unique," Dr. Carey said during a 1994 interview. "He had a remarkable ability to get more out of people than was in them. He convinced all of us that we were a lot better than we were, and having done so, he helped us achieve more than we might have."

Under Dr. Ellison's leadership, the surgical faculty at Marquette made important contributions to the field of gastrointestinal surgery, and the department and its academic reputation grew and flourished.

Dr. Ellison died in 1970. He is remembered as a successful leader in academic surgery who made significant contributions to the profession of surgery, both at The Ohio State University Medical Center and at the Medical College of Wisconsin.

The bust of Dr. Ellison was sculpted by artist Anna D. Christoforidis, who also created the bust of Dr. Zollinger exhibited in the department's display case.



Instruments presented to Dr. Robert M. Zollinger

Also on Exhibit

Also on exhibit is a set of surgical instruments that belonged to Dr. Robert M. Zollinger, chairman of the Department of Surgery from 1946 to 1974.

The instruments, a pair of Metzenbaum surgical scissors, were presented to Dr. Zollinger in 1970 by the then chief residents in general surgery: Dr. Michael F. Kaplan, Dr. Avram R. Kraft, Dr. Paul C. Redmond, Dr. Gary M. Richardson, and Dr. Thomas T. Vogel.

The instruments were donated to the Department of Surgery by Dr. Zollinger's son, Dr. Robert M. Zollinger, emeritus professor of surgery at Case Western Reserve University, in Cleveland, Ohio.

Division of Cardiac Surgery



Cardiac Surgery



Robert S. D. Higgins, MD, MSHA
Chief, Division of Cardiac Surgery

The past academic year in the division of cardiac surgery has been a continuation of the initiatives and efforts to enhance this historically strong division. With the addition of outstanding recruitments to compliment the surgical staff including Dr. Ahmet Kilic and Dr. Bryan Whitson the division will strengthen and diversify the programs and expertise available in the Wexner OSU Heart and Vascular Center. Dr. Bryan Whitson joins the faculty as an exciting addition from the University of Minnesota where he distinguished himself as an accomplished resident and academic physician/scientist. Dr. Whitson's interests include heart and lung transplantation, mechanical circulatory support, ECMO and he will play a principle role in the reinstitution of our lung transplantation program in the fall 2012. This recruitment complements the existing expertise in programs supporting patients with cardiopulmonary failure.

Drs. Crestanello, Sai-Sudhakar and Kilic have specific interest in aortic diseases, percutaneous aortic valves and complex adult cardiac surgery. With this team, a number of important programs have been launched in the past year including the Level 1 Acute Aortic and Vascular Referral Program reaching out to programs in the region to provide service for acute surgical emergencies such as ruptured aortic aneurysm, aortic dissection, symptomatic thoraco abdominal aneurysms and acute cardiogenic shock. Using the multi-disciplinary expertise of the Ross Heart Hospital, we have been able to establish an expedited diagnostic and therapeutic referral program for community based practices around central Ohio. Dr. Juan Crestanello and the multi-disciplinary cardiology team lead by Drs. Barry George, Ernie Mazzaferri and Vince Pompili have gained a significant momentum in the percutaneous valve program using the CoreValve from Medtronic and the Sapien valve from Edwards to provide therapeutic options for patients who are deemed inoperable for traditional open aortic valve procedures. This team is one of few providers in the region to offer these innovative therapeutic interventions for patients with life-threatening aortic stenosis. And Drs. C. B. Sai-Sudhakar, Kilic and Higgins have been instrumental in building the mechanical circulatory support and heart transplantation programs with renewed focus and

commitment to the care of patients with advanced complex heart failure. These programs signal the arrival of Wexner Medical Center at The Ohio State University as a 'cardiovascular destination' in the region.

Patient Care

The division of cardiac surgery continues to develop its comprehensive programs including therapies for end-stage heart and lung failure with mechanical circulatory support, heart transplantation and re-initiation of the lung transplantation program scheduled for the fall 2012. Under the direction of Dr. Robert Higgins, Drs. Ahmet Kilic, Juan Crestanello, C. B. Sai-Sudhakar and new faculty member, Dr. Bryan Whitson will provide support for these innovative and established programs. Dr. John Sirak continues to build a national referral practice for the treatment of arrhythmias using his innovative thoroscopic maze procedure. Dr. Michael Firstenberg has been instrumental in developing a regional referral program for end-stage cardio-pulmonary failure using extra-corporal membrane oxygenation programs and therapies to resuscitate patients who would otherwise fail in many circumstances. With the development of these programs and clinical offerings it is clear that the division of cardiac surgery will define its niche in the region and continue to be identified among the top cardiovascular surgical programs in the country.

Education

As is true in any academic cardiothoracic surgery practice the cornerstone of the academic mission is the commitment to train future generations of cardiothoracic surgeons. We are pleased to announce that the division has once again partnered with the division of thoracic surgery to provide comprehensive training for residents and successfully matched two high-caliber general surgery residents – Drs. Emily Smeltzer and Stephen Noble- to join the program in July 2013 - 2014. Of note, fewer than 100 candidates applied for positions in the field further reinforcing that this is an important distinction for the training program. We also are beholden to our partners in congenital heart surgery, Drs. Mark Galantowicz and Patrick McConnell who provide an outstanding experience in the field of congenital and structural heart disease at Nationwide Children's Hospital as part of our program. Our goal is to train the next generation of surgeons to be capable, competent and highly successful professionals in the field of thoracic surgery whether it be in community practice or a University or academic environment. Ultimately, we plan to offer additional programs to students coming out of medical school as an integrated six year cardiovascular program in the near future.

Research

Among the most exciting announcements this year is the recruitment of Dr. Jianjie Ma, PhD as professor and the Karl P. Klassen Chair of Thoracic Surgery. Dr. Ma will be leading the research efforts in the divisions of cardiac and thoracic surgery and also developing departmental programs in the biomedical sciences as a Davis Heart and Lung Research Institute investigator. Dr. Ma joins The Ohio State University from Robert Wood Johnson Medical School at the University of Medicine and Dentistry of New Jersey where he was the university named professor and acting chair of the department of physiology and biophysics. This is an exciting development as Dr. Ma is a NIH funded researcher, prominently and widely published on topics of muscle physiology, aging, cardiovascular disease, cystic fibrosis, apoptosis and cancer biology. He will not only lead our research program but also mentor our physician/scientists in the development of programs critical to our mission and divisional priorities.

It is also with great pleasure that we announce the recruitment of Dr Toshiharu Shinoka who joins our division from Yale University School of Medicine where he was previously the Chief of Pediatric Cardiothoracic Surgery. Professor Shinoka is a world renowned surgeon scientist best known for developing tissue engineered vessels in collaboration with Dr. Christopher Breuer. Drs. Breuer and Shinoka will be bringing their world class research team to Nationwide Children's Hospital to continue their extraordinary translational and clinical research.

It is our expectation that with renewed leadership vision, strategic planning and commitment in the areas of clinical care, education and research we will be able to achieve extraordinary distinction in the realm of cardiovascular surgery, education and research.

Faculty

Robert S. D. Higgins, MD, MSHA

Professor of Surgery; Chief, Division of Cardiac Surgery
Program Director, Cardiac and Thoracic Surgery Residency Program
John H. and Mildred C. Lumley Medical Research Chair
Director, Comprehensive Transplant Center

BA: Dartmouth College, Hanover, NH, 1981

MD: Yale University School of Medicine, New Haven, Ct., 1985

Specialty Training: Residency in general surgery, University Health Center of Pittsburgh, Pittsburgh, Pa., 1990; fellowship in cardiothoracic surgery, Yale University School of Medicine, New Haven, Ct., 1990-1993; senior registrar in transplantation, Papworth Hospital, Cambridge University, Cambridge, England, 1993; masters, health administration, Virginia Commonwealth University, Richmond, Va., 2005

Appointment: July 1, 2010

Specialty Interests: Heart transplantation, adult cardiac surgery, coronary artery bypass surgery, mechanical circulatory support.

Research Interests: Healthcare outcomes, disparities in transplantation and healthcare, ischemia reperfusion injury.



Higgins

Juan A. Crestanello, MD

Associate Professor of Surgery

MD: University of the Republic of Uruguay Medical School, Montevideo, Uruguay

Specialty Training: General surgery residency, University of Maryland Medical System, Baltimore, Md.; cardiothoracic surgery research, Hahnemann University, Philadelphia, Pa., and University of Maryland, Baltimore, Md.

Appointment: 2004

Specialty Interests: Cardiac surgery

Research Interests: Ischemic preconditioning, mitochondrial function during ischemic preconditioning, myocardial ischemia reperfusion injury, cell transplantation, the effect of myocardial oxygen content on survival of transplanted cells



Crestanello

Michael S. Firstenberg, MD

Assistant Professor of Surgery

BA: University of Chicago, Chicago, Il., 1990

MD: Case Western Reserve University, Cleveland, Oh., 1996

Specialty Training: The Ohio State University Medical Center, Columbus, Oh.; Cleveland Clinic, Cleveland, Oh.; National Heart, Lung, and Blood Institute, Bethesda, Md.; University Hospitals, Cleveland, Oh.

Appointment: 2007

Specialty Interests: Adult acquired and congenital cardiac surgery, cardiothoracic critical care, mechanical assist, heart failure

Research Interests: Cardiac imaging and physiology, mechanical assist



Firstenberg

Mark Galantowicz, MD

Professor of Clinical Surgery

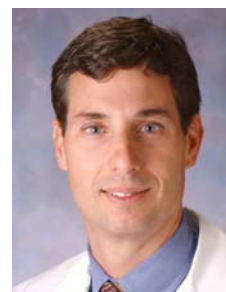
BA: University of Pennsylvania, Philadelphia, Pa., 1982

MD: Cornell University Medical College, New York, NY, 1987

Specialty Training: Columbia-Presbyterian Medical Center, New York, NY

Appointment: 2002

Specialty Interests: Pediatric transplantation and surgery



Galantowicz

Ahmet Kilic, MD

Assistant Professor of Surgery

BS: The Pennsylvania State University, University Park, Pa., 1998

MD: Virginia Commonwealth University, Richmond, Va., 2002

Specialty Training: Internship and residency in general surgery; University of Maryland, Baltimore, Md.; fellowship in cardiothoracic surgery, University of Virginia, Charlottesville, Va.

Appointment: 2011

Specialty Interests: Aortic surgery, heart transplantation, lung transplantation, heart failure

Research Interests: Aortic pathology, heart and lung transplantation; heart failure



Kilic

Pawel Kwiatkowski, MD

Assistant Professor of Surgery

BA: ILO Swietochlowice, Poland, 1982

MD: Silesian Academy of Medicine, Katowice, Poland, 1988

Specialty Training: Silesian Academy Medical Center, Zabrze, Poland; Columbia University, New York, NY

Appointment: 1998

Research Interests: Transplant immunology, including xenotransplantation and allotransplantation of heart and lung



Kwiatkowski

Patrick I. McConnell, MD

Assistant Professor of Surgery

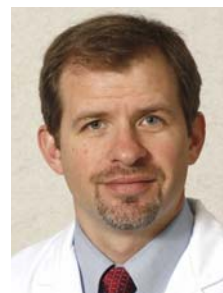
BA: Creighton University, Omaha, Ne., 1994

MD: University of Nebraska Medical Center, Omaha, Ne., 1999

Specialty Training: General surgery residency, University of Utah Hospitals, Salt Lake City, Ut.; fellowship in cardiovascular surgery, The Ohio State University Medical Center, Columbus, Oh.; fellowship in congenital heart surgery, Nationwide Children's Hospital, Columbus, Oh., 2010

Appointment: 2010

Specialty Interests: Congenital heart surgery, adult congenital heart surgery, mechanical circulatory support.



McConnell

Sampath Parthasarathy, PhD, MBA

The Karl P. Klassen Professor of Surgery; Director of Research, Division of Cardiothoracic Surgery; Professor of Human Nutrition; Professor, Endocrinology, Diabetes and Metabolism; Professor of Internal Medicine

PhD: Indian Institute of Science, Bangalore, India, 1975

MBA: University of Phoenix, Phoenix, Az., 2004

Specialty Training: Kyoto University, Kyoto, Japan; Duke University, Durham, NC; the Hormel Institute, University of Minnesota, Austin, Mn.

Appointment: 2006

Research Interests: Vascular biology and medicine



Parthasarathy

Chittoor B. Sai-Sudhakar, MBBS, FACS, FRCS

Assistant Professor of Surgery

Surgical Director, Ventricular Assist Device Program

BA: Loyola College, Madras, India, 1975

BSc: Presidency College, Madras, India, 1976

MBBS: Stanley Medical College, Madras, India, 1982

Specialty Training: Yale-affiliated residency, St. Mary's Hospital, Waterbury, Ct.

Appointment: 2003

Specialty Interests: Aortic surgery, heart failure

Research Interests: Pathways in endothelial cells



Sai-Sudhakar

John H. Sirak, MD

Assistant Professor of Clinical Surgery

BA: Amherst College, Amherst, Ma., 1985

MD: Case Western Reserve University, Cleveland, Oh., 1991

Specialty Training: General surgery residency, minimally invasive cardiothoracic surgery fellowship, The Ohio State University, Columbus, Oh.; arrhythmia surgery fellowship, Cleveland Clinic, Cleveland, Oh.

Appointment: 2004

Specialty Interests: Surgery for atrial fibrillation

Research Interests: Transplant immunology



Sirak

Faculty Departures

Sampath Parthasarathy, PhD, MBA, FAHA

The Karl P. Klassen Chair; Professor of Surgery; Director of Research, Division of Cardiothoracic Surgery; Professor, Human Nutrition; Professor, Endocrinology, Diabetes and Metabolism; Professor of Internal Medicine

Pawel Kwiatkowski, MD

Research Assistant Professor

Emeritus Faculty

J. Terrance Davis, MD

Professor Emeritus of Clinical Surgery

B.A.: Williams College, Williamstown, Ma., 1963

M.D.: University of Pennsylvania, Philadelphia, Pa., 1967

Gerard S. Kakos, MD

Clinical Associate Professor Emeritus of Surgery

B.A.: The Ohio State University, Columbus, Oh., 1964

M.D.: The Ohio State University, Columbus, Oh., 1967

James W. Kilman, MD

Professor Emeritus of Surgery

B.S.: Indiana State University, Terre Haute, In., 1956

M.D.: Indiana State University, Indianapolis, In., 1960

Charles V. Meckstroth, MD

Professor Emeritus of Surgery

B.A.: The Ohio State University, Columbus, Oh., 1944

M.D.: The Ohio State University, Columbus, Oh., 1947

M.M.Sc. (Surgery): The Ohio State University, Columbus, Oh., 1950

Howard D. Sirak, MD

Professor Emeritus of Surgery

A.B.: University of Pennsylvania, Philadelphia, Pa., 1943

M.D.: The Ohio State University, Columbus, Oh., 1947

M.M.Sc. (Surgery): The Ohio State University, Columbus, Oh., 1953

Clinical Faculty

Thomas E. Williams, Jr, MD, PhD

Clinical Associate Professor of Surgery

BA: Princeton University, Princeton, NJ, 1957

MS, MD: The Ohio State University, Columbus, Oh., 1963

PhD: Northwestern University, Evanston, Il., 1969

Resident Staff

Dana Booth, MD

PGY-7

BS: University of California at San Deigo, San Diego, Ca., 1997

MD: Medical College of Wisconsin, Milwaukee, Wi., 2003

Karen Nelson, MD

PGY-7

BA: University of Kentucky, Lexington, Ky., 2000

BS: Mercer University, Macon ,Ga., 1997

DO: Lake Erie College of Osteopathic Medicine, Bradenton, Fl., 2005

Jennifer Worth, MD

PGY-6

BA: DePauw University, Greencastle, In., 1999

MD: Drexel University, Philadelphia, Pa., 2005

Daniel Cozadd, DO

PGY-6

BA: Illinois State University, Normal, Il., 2001

DO: Lake Erie College of Osteopathic Medicine, Erie, Pa., 2006

Mission

The Division of Cardiac Surgery is dedicated to preserving and improving life for patients with heart and valve disease.

Research Programs

- ACE Trial
- AlloCure Stem Cell Trial. A randomized, Multicenter, Double-Blind, Placebo-Controlled Trial of AC607 for the Treatment of Acute Kidney Injury in Cardiac Surgery Subjects.
- American Heart Association Hybrid Revascularization Study
- CarboMetircs Mitroflow Study
- Carotid Retrospective Study
- CardioWest Temporary Total Artificial Heart market surveillance study
- Cormatrix Study
- CoreValve Clinical Trial
- CoreValve Continued Access Trial
- CTSN - Atrial Fibrillation Study
- CTSN - Moderate Mitral Regurgitation Study
- CTSN - Severe Mitral Regurgitation Study
- Destiny trial: Effects of Mitral Valve Annuloplasty with the Geoform Ring on Left Ventricular Geometry and Function in Patients with Cardiomyopathy
- EXCEL: Evaluation of XIENCE V/XIENCE PRIME vs Coronary Artery Bypass Surgery for Effectiveness of Left Main Revascularization.
- Hybrid Revascularization Observational Study
- Hyponatremia During Cardiac Surgery
- Merck Staph A. Vaccine Clinical Trial
- On-X Valve Using Low Dose Anticoagulation Clinical Trial
- STICH protocol for surgical treatment for ischemic heart (STICH) failure trial

- Saphenous Vein Graft Study
- Role and mechanism of oxygen tension and oxidative stress in regulating the development of intimal hyperplasia in human saphenous veins cultures ex-vivo
- TTM Study

Accomplishments in Research

- Researchers at Ohio State University Medical Center and other scientists examined the use of an investigative intravenous antiplatelet drug, cangrelor, and found it to be an effective bridge between long-lasting oral antiplatelet medications and cardiac surgery. The drug's platelet inhibition rapidly loses effect within a few hours, so it can be discontinued just prior to surgery. Results of the study are available in the January 18, 2012 edition of the *Journal of the American Medical Association*. **Dr. Michael S. Firstenberg**, assistant professor of surgery in the Division of Cardiac Surgery and co-author of the study, says antiplatelet medication is a cornerstone therapy for preventing clots in people with cardiovascular and peripheral vascular diseases or a history of previous stroke. In the study, 210 patients at 34 international medical centers including Ohio State were randomized to stop oral antiplatelet therapy and receive either intravenous cangrelor or placebo for up to five days prior to coronary artery bypass surgery. Treatment stopped approximately three hours before incision. Researchers found patients treated with cangrelor maintained a low risk of clotting complications from platelet deactivation without a significant excess in bleeding or bleeding complications, compared to those on placebo.
- A team of cardiac surgeons and interventional cardiologists led by surgical principal investigator **Dr. Juan Crestanello**, associate professor of surgery, Division of Cardiac Surgery and co-principal investigator Dr. John P. Cheatham, director of interventional cardiology at Nationwide Children's Hospital and professor of pediatrics and internal medicine at The Ohio State University College of Medicine, are participating in a nationwide clinical trial that may lead to new hope for patients with aortic stenosis that were previously considered inoperable. The team at Ohio State is one of 40 centers taking part in the CoreValve U.S. Pivotal Trial. The first CoreValve implantation at Ohio State took place in March.

Active Research Grants

Crestanello J. "Hybrid revascularization: a collaborative approach to coronary artery disease" American Heart Association Great Rivers Affiliate Spring 2010 Clinical Research Program 10CRP4160147. July 1, 2010 – June 30, 2012, \$121,000.00.

Crestanello J. 2011 Medtronic Core Valve US Pivotal Trial. January 11, 2011 – December 30, 2015, \$1,000,000.

Crestanello J. Hybrid revascularization vs. percutaneous coronary intervention: a planning grant. NIH. September 30, 2009 – August 31, 2011.

Firstenberg MS. “A randomized, multicenter, double-blind, group-sequential study to evaluate the efficacy, immunogenicity, and safety of a single dose of Merck 0657nI staphylococcus aureus vaccine (V710) in adult patients.” Merck. November 11, 2008 – November 11, 2010, \$49,663. Principal Investigator.

Firstenberg MS. “A randomized study to compare sizing, implant techniques and hemodynamic performance between the mitroflow and the Carpentier-Edwards magna pericardial tissue valves in the aortic position.” Sorin Biomedical. November 12, 2008 – October 13, 2011, \$106,250. Principal Investigator.

Firstenberg MS. “Maintenance of platelet inhibition with cangrelor after the discontinuation of thienopyridines in patients undergoing surgery (BRIDGE).” The Medicines Co. May 2010 – May 2014, \$65,000. Principal Investigator.

Firstenberg MS. Steroids in Cardiac Surgery Trial (SIRS). The Population Health Research Institute (Canada). August 20, 2011 – present, \$54,500. Principal Investigator.

Firstenberg MS. “Temporary Circulatory Support for Severe Sepsis.” Maquet Cardiovascular. August 20, 2011 – present, \$4,000. Principal Investigator.

Firstenberg MS. “The Relationship Between Pre-ECMO Ventilation Duration of Days of Support on Survival for Influenza H1N1 in Adult Patients.” The Extra-corporeal Life Support Organization. The University of Michigan. Peer-reviewed. Amount: March 2012 – March 2014, \$5,000. Principal Investigator.

Firstenberg MS. “C-Pulse: Implantable Counterpulsation Pump (Icp): A Heart Assist Device.” Sunshine Heart, Inc. 2009 – present. Co-Investigator.

Firstenberg MS. “Arterial pO₂-induced intima hyperplasia in saphenous vein: Mechanism & inhibition.” NIH. December 1, 2008 – present, \$1,270,725. Co-Investigator

Galantowicz ME. “Retrospective Review of Blood Product Utilization.” August 11, 2006 – August 9, 2011, Co-Investigator.

Galantowicz ME. “Preoperative Usage of Erythropoietin as a Blood Conservation Strategy in Pediatric Cardiac Surgical Patients.” August 7, 2007 – August 5, 2011, Co-Investigator.

Galantowicz ME. “Cardiothoracic Tissue Bank.” August 3, 2007 – August 1, 2011, Co-Investigator.

Parthasarathy S. “Non-pharmacological control of atherosclerosis.” NIH/NCCAM. July 1, 2010 – June 30, 2015, \$250,000. Principal Investigator.

Parthasarathy S. “Novel mechanisms by which aspirin might protect against atherosclerosis.” National Heart, Lung, and Blood Inst. July 1, 2008 – June 30, 2012, \$375,000. Principal Investigator.

Sai-Sudhakar CB. “Mechanical circulatory support: Development and use of quality of life instruments.” Northwestern University. April 4, 2011 – March 31, 2015, \$250,000. Collaborator.

Sai-Sudhakar CB. “Destiny trial: Effects of mitral valve repair with the Geoform Ring on cardiomyopathy.” Ohio State University. January 25, 2007 – December 2012, \$33,762. Co-Investigator.

Sai-Sudhakar CB. “Evaluation of the HeartWare LVAD system for the treatment of advanced heart failure.” HeartWare Inc. November 15, 2010 – November 15, 2012, \$140,000. Principal Investigator.

Sai-Sudhakar CB. “Dexmedetomidine for the treatment of delirium after heart surgery (DexinDelir).” Thorax-Kärlkliniken. July 7, 2010 – May 2012, \$50,000. Co-Investigator.

Sai-Sudhakar CB. “Comparison of surgical and medical treatment for congestive heart failure and coronary artery disease (STICH).” National Heart, Lung, and Blood Institute (NHLBI). September 11, 2001 – December 2011, \$252,000. Co-Investigator.

Sai-Sudhakar CB. “Surgical interventions for moderate ischemic mitral regurgitation.” NHLBI, NINDS & CIHR. December 2008 – November 2011, \$211,557. Principal Investigator

Sai-Sudhakar CB. “Evaluation of outcomes following mitral valve repair / replacement in severe chronic ischemic mitral regurgitation.” National Heart, Lung and Blood Institute (NHLBI), Canadian Institutes of Health Research (CIHR). December 2008 – November 2011, \$211,557. Principal Investigator.

Sai-Sudhakar CB. “Probes and methods for clinical oximetry” National Institutes of Health R01. December 2008 – November 2011, Co-Investigator.

Sai-Sudhakar CB. “Medtronic Mosaic vs. Carpentier-Edwards Perimount All-Cause Patient Survival.” 2009 – present, Co-Investigator.

Sai-Sudhakar CB. “Syncardia CardioWest TAH-t Post Market Surveillance study.” SynCardia Systems. Inc. January 30, 2008 – present, Co-Investigator.

Sai-Sudhakar CB. “A study of staphylococcus aureus vaccine (V710) in patients scheduled for cardiothoracic surgery.” Merck. August 17, 2008 – present, \$49,663. Co-Investigator.

Sirak JH. “EXCLUDE Study of Left Atrial Appendage Clip.” 2009 – present, Principal Investigator.

Sirak JH. “ABLATE Study of Concomitant Treatment of Atrial Fibrillation.” 2009 – present, Principal Investigator.

Sirak JH. “COREMATRIX Trial.” 2009 – present, Principal Investigator.

Sirak JH. “Minimally Invasive Surgical Therapy of Atrial Fibrillation (Single Center Observational).” 2009 – present, Principal Investigator.

Sirak JH. “Epicardial vs. Percutaneous Therapy of Atrial Fibrillation (Single Center Randomized Controlled Trial).” 2009 – present, Co-Investigator.

Clinical Programs

- Adult cardiothoracic surgery
- Aortic surgery
- Arrhythmia surgery
- Heart failure surgery
- Heart transplantation
- Lung transplantation
- Mechanical circulatory support
- Minimally invasive heart surgery
- Robotic surgery
- Total artificial heart transplantation

Accomplishments in Clinical Care

- Strengths and opportunities were explored at the Cardiovascular Surgery Retreat, held on February 6, 2012, as almost 100 members of the cardiovascular team convened to review cardiovascular surgery program goals and objectives in the areas of mechanical circulatory support, heart transplantation, valve surgery, aortic surgery and minimally invasive approaches to cardiovascular disease management. Understanding the importance of individual commitments to overall team success, the group recognized key strategies to accomplish their goals. Mutual respect, professionalism and teamwork were all identified as key principles to accomplish the program goals. Like any “team sport”, individual commitments directed to a common vision often lead to great collective success and we look forward to a bright future with these principles in mind.

- Dr. Mark Galantowicz was listed as *America's Most Compassionate Doctor, 2011-2012, Patient's Choice Award, and Cambridge Who's Who* in pediatric cardiac surgery.
- Dr. Chittoor Sai-Sudhakar was appointed as surgical director of the Left Ventricle Surgical Device program in the OSU Heart and Vascular Center. In this role, Dr. Sai-Sudhakar provides administrative oversight for the Ventricular Assisted Device (VAD) program, provides leadership for patient selection and coordination of care in the perioperative period, develops outcomes metrics, and establishes reimbursement and expense protocols with hospital administration and managed care providers.
- Dr. Dr. John H. Sirak visited 7 cities in China to train surgeons on his five-box thoracoscopic maze procedure. The five-box maze procedure is a closed-chest, beating heart, minimally invasive treatment for atrial fibrillation. This innovative surgical treatment approach is teamed with comprehensive testing to assure that all potential causes are completely treated. Outcomes in patients who have had the five-box thoracoscopic maze procedure compare very favorably to those who have undergone catheter ablation or other types of maze surgery such as the Wolf Mini-Maze. Dr. Sirak performed 11 procedures in 11 working days, and also presented on the treatment at lectures.

Clinical Statistics

OR Procedures	2,335
Outpatient Visits	1,599
Admissions	104
Patient Days	11,638
Average Length of Stay (Days)	10.2

Educational Programs

- Two-year cardiothoracic surgery fellowship accredited by the Accreditation Council for Graduate Medical Education.
- One-year fellowship in advanced heart failure/transplantation/mechanical circulatory support.
- Comprehensive rotation in cardiothoracic surgery for first- and third-year residents in general surgery.
- Eight week Summer Scholars program exposing first year medical students to the field of cardiothoracic surgery.

Accomplishments in Education

- Dr. Robert S. D. Higgins was appointed to the Residency Review Committee, Accreditation Council for Graduate Medical Education, 2012 – 2018.
- Completion of the cardiothoracic surgery fellowship by Dr. Dana A. Booth on June 30, 2012.
- Program matched two general surgery residents who will begin CT surgery training July 1, 2013
- Provided five 1st year medical students the opportunity to spend 8 weeks of hands on and engaged activities exploring cardiothoracic surgery and cardiothoracic research.
- PCardiothoracic Surgery Interest Group formed, which was born out of our Summer Scholars Program and organized by two Summer Scholars Alumni: Ryan Campagna & Lorraine Fowler.

Accomplishments in Outreach

- Dr. Robert S. D. Higgins presented at the Heart Failure at the 'Shoe symposium held November 18, 2011 at The Ohio State University, Columbus, Ohio.

Publications

Rottenberg EM, Dimitrova GT, **Crestanello JA**, Awad H. The need for alternative methods of cardiopulmonary resuscitation when sternal compression is contraindicated. *Ann Thorac Surg*. 2012 Jun;93(6):2117-8.

Tripathi RS, Stein EJ, **Crestanello JA**, Papadimos TJ. High-frequency oscillatory ventilation after cardiac surgery: a treatment for all ages. *Crit Care*. 2012 Jan 23;16(1):405. [Epub ahead of print]

Crestanello JA. Surgical approach to mitral regurgitation in chronic heart failure: when is it an option? *Curr Heart Fail Rep*. 2012 Mar;9(1):40-50.

Winner MW 3rd, Raman SV, Sun BC, **Crestanello JA**. Preoperative assessment of anomalous right coronary artery arising from the main pulmonary artery. *Case Report Med*. 2011;2011:642126. [Epub 2011 May 31]

Yeen WC, Haas G, Mehmood SA, **Crestanello JA**. Relapse of giant cell myocarditis supported with veno-arterial extracorporeal membrane oxygenation. *Interact Cardiovasc Thorac Surg*. 2011 May;12(5):829-31. [Epub 2011 Feb 5]

Firstenberg MS, Abel E, Higgins RS, Sirak JH, Sai-Sudhakar CB, Kilic A, Crestanello J. Shortness of breath: pulmonary embolism, ischemic heart failure, or both? The role of concomitant surgery. *Heart Surg Forum*. 2012 Feb;15(1):E56-8.

Ravi Y, Firstenberg M, Crestanello J, Sudhakar CB. Mechanical circulatory support for the visually impaired: is it appropriate? *Expert Rev Med Devices*. 2011 Mar;8(2):155-7.

Firstenberg MS, Crestanello J. Durability of sternal plating after respiratory arrest requiring chest compressions. *Ann Thorac Surg*. 2011 Mar;91(3):988-9.

Firstenberg MS, Orsinelli DA. ECMO and ECHO: The Evolving Role of Quantitative Echocardiography in the Management of Patients Requiring Extracorporeal Membrane Oxygenation. *Journal American Society of Echocardiography*. 2012; 6(25): 641-643.

Firstenberg MS. Contraindications to Extracorporeal Membrane Oxygenation: Are There Any Absolutes? *Journal American Society of Echocardiography*. 2012; 6(25): 698.

Abandeh FI, Bazan JA, Davis JA, Zaidi AN, Daniels CJ, **Firstenberg MS.** Bartonella henselae Prosthetic Valve Endocarditis in an Adult Patient with Congenital Heart Disease: Favorable Outcome After Combined Medical and Surgical Management. *J Card Surg*. 2012 Mar 1. [Epub ahead of print]

Meyer MM, Young SD, Sun B, Azzouz M, **Firstenberg MS.** Endoscopic Evaluation and Management of Gastrointestinal Bleeding in Patients with Ventricular Assist Devices. *Gastroenterology Research and Practice*. 2012

Firstenberg MS, Abel E, Higgins RA, Sirak JH, Sai-Sudhakar CB, Kilic A, Crestanello J. Shortness of Breath: Pulmonary Embolism, Ischemic Heart Failure, or Both? The Role of Concomitant Surgery. *The Heart Surgery Forum*. 2012; 15(1): E56 - E58.

Firstenberg MS, Nelson K, Abel E, McGregor J, Eiferman D. Extracorporeal Membrane Oxygenation for Complex Multiorgan System Trauma. *Case Reports in Surgery*, 2012, Article ID 897184, 3 pages.

Dalton RE, Tripathi RS, Abel EE, Kothari DS, **Firstenberg MS,** Stawicki SP, Papadimos TJ. Polyneuropathy and Myopathy in the Elderly. *HSR Proceedings in Intensive Care and Cardiovascular Anesthesia* 2012; 4(1): 15-19.

Patel V, Rink C, Gordillo GM, Khanna S, Gnyawali U, Roy S, Shneker B, Ganesh K, Phillips G, More JL, Sarkar A, Kirkpatrick R, Elkhannas EA, Klatte E, Miller M, **Firstenberg MS,** Chiocca EA, Nesaretnam K, Sen CK. Oral Tocotrienols Are Transported to Human Tissues and Delay the Progression of the Model for End-Stage Liver Disease Score in Patients. *Journal of Nutrition*. 2012 (February 1)

Firstenberg MS, Sai-Sudhakar CB, Anyanwu A. Valvular disease in patients requiring long-term left ventricular assist devices: pathophysiology and therapeutic options. *Expert Reviews of Cardiovascular Therapy*. 2012; Vol. 2, no. 10. (February): 205-213.

Angiolillo DJ, **Firstenberg MS**, Price MJ, Tummala PE, Hutyra M, Welsby IJ, Voeltz MD, Chandna H, Ramaiah C, Brtko M, Cannon L, Dyke C, Liu T, Montalescot G, Manoukian SV, Prats J, Topol EJ; BRIDGE Investigators. Bridging antiplatelet therapy with cangrelor in patients undergoing cardiac surgery: a randomized controlled trial. *JAMA: Journal of the American Medical Association*. 2012; Vol. 307, no. 3. (January 18): 265-274.

Firstenberg MS, Galloway J, Abel E, Papadimos TJ, Burcham P, Mast D, Tripathi RS. Extra-corporeal Circulatory Support: A Resurgence of a Life Saving Therapy in the Digital Information Age. *Surgery: Current Research*. 2012; Vol. 2, no. 1. (January)

Firstenberg MS, Abel E, Papadimos T, Tripathi R. Nonconvective Forces: A Critical and Often Ignored Component in the Echocardiographic Assessment of Transvalvular Pressure Gradients. *Cardiology Research and Practice*. 2012.

Burcham P, Blais D, **Firstenberg MS**. Platelet Inhibition and Surgical Bleeding—A Plea for More Science and Evidence-Based Guidelines. *Circulation Journal*. 2011; Vol. 75. (November): 2751-2752.

Firstenberg MS, Abel E, **Higgins RSD**, **Sirak JH**, **Sai-Sudhakar CB**, **Kilic A**, **Crestanello J**. Shortness of Breath: Pulmonary Embolism, Ischemic Heart Failure or Both? The Role of Concomitant Surgery. *The Heart Surgery Forum*. 2012, Feb 1;15(1)E56-8.

Naguib, AN, Corridore, M, Phillips A, Olshove V, **Galantowicz M**, Tobias, J. Perioperative Care of an Infant With an Anomalous Left Innominate Artery Arising from the Main Pulmonary Artery, *Journal of Intensive Care Medicine*. 2011; Volume 26, Number 5: 330-334.

Wu C, Camacho F, Culliford A, Gold J, Wechsler A, **Higgins RSD**, Lahey S, Smith C, Jordan D, Hannan E. 2012. A Comparison of Long-Term Mortality for Off-Pump and On-Pump Coronary Artery Bypass Graft Surgery. *AHA Circulation Cardiovascular Quality and Outcomes*. Edited by Harlan M. Krumholz, MD, SM, Editor. January 10, 2012

Hannan EL, Zhong Y, Lahey SJ, Culliford AT, Gold JP, Smith CR, **Higgins, RSD**, Jordan D, Wechsler A. 30-Day Readmissions After Coronary Artery Bypass Graft Surgery in New York State. *JACC: Cardiovascular Interventions by The American College of Cardiology Foundation*. 2011;4(5):569-576.

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Crestanello JA. Aortic Valve Surgery in Patients with Congestive Heart Failure. *Management of Heart Failure*. Edited by Jai Raiman. August 2011

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International Presentations

Kay WA, Emani S, **Ravi Y**, Franco V, **Crestanello J**, **Kilic A**, **Sai-Sudhakar CB**. Novel assessment of hemolytic anemia in continuous flow left ventricular assist devices. International Society for Heart and Lung Transplantation. 32nd Annual Meeting and Scientific Sessions, Prague, Czech Republic, April 18-21, 2012

Firstenberg MS. Extra-corporeal Membrane Oxygenation (ECMO) for Post-Percutaneous Cardiac Intervention (PCI) Cardiogenic Shock. 39th Congress of the Brazilian Society for Cardiovascular Surgery. Maceio, Brazil, April 12-14, 2012.

Firstenberg MS. When To Start Thinking About Extra-Corporeal Membrane Oxygenation (ECMO): Clinical Indications for Support. 39th Congress of the Brazilian Society for Cardiovascular Surgery. Maceio, Brazil, April 12-14, 2012.

Firstenberg MS. Acute Circulatory Assistance Device Implantation – Lecture and Hand's-On Tutorial. 39th Congress of the Brazilian Society for Cardiovascular Surgery. Maceio, Brazil, April 12-14, 2012.

Firstenberg MS. A Multi-Center International Randomized Trial of Cangrelor, A Short-Acting IV, Reversible, Platelet P2Y₁₂ Inhibitor in Patients Requiring Cardiac Surgery. 8th International Congress of Update in Cardiology and Cardiovascular Surgery. Antalya, Turkey, March 1-4, 2012.

Firstenberg MS. Update on LVAD Indications. Invited Lecture. 8th International Congress of Update in Cardiology and Cardiovascular Surgery. Antalya, Turkey, March 1-4, 2012.

Firstenberg MS. Bridge to Heart Transplant: The Role of Extra-Corporeal Membrane Oxygenation (ECMO). Invited Lecture. 8th International Congress of Update in Cardiology and Cardiovascular Surgery. Antalya, Turkey, March 1-4, 2012.

Firstenberg MS. Extra-Corporeal Membrane Oxygenation (ECMO): 2012 Update. Invited Lecture. 8th International Congress of Update in Cardiology and Cardiovascular Surgery. Antalya, Turkey, March 1-4, 2012.

Firstenberg MS, Dramburg W, Schueler S, Demirsoy E, Silistreli E, Erk E. Glittering Stars in End-Stage Heart Failure. Invited Moderated Discussion. 8th International Congress of Update in Cardiology and Cardiovascular Surgery. Antalya, Turkey, March 1-4, 2012.

Firstenberg MS, Ramaiah C, Roberts H, Moderator. Live Surgery: Mini-Invasive Mitral Valve Surgery (Panel Moderator). Presented at 20th Argentine Congress of Cardiovascular and Endovascular Surgery. Buenos Aires, Argentina, November 4, 2011.

Firstenberg MS. Extra-Corporeal Membrane Oxygenation: Evolving Role for Acute Respiratory Failure. Presented at 20th Argentine Congress of Cardiovascular and Endovascular Surgery. Buenos Aires, Argentina, November 3, 2011.

Firstenberg MS. Left Ventricular Assist Devices for Destination Therapy: When Transplant is Not an Option. Presented at 20th Argentine Congress of Cardiovascular and Endovascular Surgery. Buenos Aires, Argentina, November 3, 2011

Firstenberg MS. Acute Cardiac Mechanical Support: Indications and Outcomes. When should we think in starting circulatory support in the clinical practice?. Presented at Mechanical Circulatory Support: Current Status. S rio-Liban s Hospital, University of Sao Paulo. Sao Paulo, Brazil, July 1-2, 2011.

Firstenberg MS. Complications of Mechanical Circulatory Support: Chronic Support. Intensive care management and monitorization in patients under implantable LVADs? Presented at Mechanical Circulatory Support: Current Status. S rio-Liban s Hospital, University of Sao Paulo. Sao Paulo, Brazil, July 1-2, 2011.

Firstenberg MS. Moderator. Mechanical Circulatory Support: Current Status and Hands On (Precepted animal lab demonstrating techniques for LVAD/RVAD/ECMO implantation). Presented at Mechanical Circulatory Support: Current Status. S rio-Liban s Hospital, University of Sao Paulo. Sao Paulo, Brazil, July 1-2, 2011.

Firstenberg MS. Mechanical Circulatory Support: Bridge to Decision Making. What do we have for clinical use and how to choose the best for each patient? Presented at Mechanical Circulatory Support: Current Status. S rio-Liban s Hospital, University of Sao Paulo. Sao Paulo, Brazil, July 1-2, 2011.

Firstenberg MS, Schmid C, Livi U, Sodian R. Moderator. Mechanical Circulatory Support: From the Acute Stabilization to Transplantation or Destination Therapy (Q&A with Panel Discussion). Presented at Mechanical Circulatory Support: Current Status. S rio-Liban s Hospital, University of Sao Paulo. Sao Paulo, Brazil, July 1-2, 2011.

Firstenberg MS, Schmid C, Livi U, Sodian R. Moderator. Mechanical Circulatory Support: Techniques for ECMO Implantation - Percutaneous, Central, and ECMO Transport (How To, Tips, and Pitfalls with Q&A/Discussion). Presented at Mechanical Circulatory Support: Current Status. S rio-Liban s Hospital, University of Sao Paulo. Sao Paulo, Brazil, July 1-2, 2011.

Firstenberg MS. Valvular Disease in Patients With Ventricular Assist Devices. Presented at The American Society of Echocardiography Annual Scientific Sessions. Montreal, Canada, June 13, 2011

Firstenberg MS. Cardiac Trauma: Iatrogenic Penetrating Injuries from Electrophysiology Procedures. Presented at 20th Argentine Congress of Cardiovascular and Endovascular Surgery. Buenos Aires, Argentina, November 4, 2011.

Galantowicz, M. 50th Anniversary of The Pediatric Cardiology Department. HLHS, C-Hybrid Columbus Experience. Giessen, Germany, July 2, 2011

Kay WA, Emani S, **Ravi Y**, Franco V, **Crestanello J, Kilic A, Sai-Sudhakar CB.** Novel assessment of hemolytic anemia in continuous flow left ventricular assist devices. International Society for Heart and Lung Transplantation. 32nd Annual Meeting and Scientific Sessions, Prague, Czech Republic, April 18-21, 2012

Ravi Y, Selvendiran K, Sitaramesh E, Meduru S, Citro L, Naidu SK, Rivera BK, Kuppusamy P, **Sai-Sudhakar CB**. PTEN is a common denominator and a therapeutic target in Primary and Secondary Pulmonary Hypertension. International Society for Heart and Lung Transplantation. 32nd Annual Meeting and Scientific Sessions, Prague, Czech Republic, April 18-21, 2012

Ravi Y, Emani S, Hasan A, **Sai-Sudhakar CB**, Gafford E. Integrating Palliative Care in the management of patients considered for mechanical circulatory support. International Society for Heart and Lung Transplantation. 32nd Annual Meeting and Scientific Sessions, Prague, Czech Republic, April 18-21, 2012

Winner M, Daoud E, **Ravi Y**, Emani S, Ackers I, **Firstenberg M**, **Sai Sudhakar CB**. Ventricular arrhythmias increase after implantation of ventricular assist devices. International Society for Heart and Lung Transplantation. 32nd Annual Meeting and Scientific Sessions, Prague, Czech Republic, April 18-21, 2012

National Presentations

Crestanello, JA Assessment of Pulmonary Disease. Medtronic Core Valve Investigator Meeting. Boston, Ma., August 12, 2011.

Crestanello JA. An update on diagnosis and treatment of pulmonary embolism: Surgical interventions in pulmonary embolism. Chest 2011. Honolulu, Hi., October 23, 2011.

Crestanello JA. Discussant of Lasaletta et al. "Antioxidant effect of redwine and vodka in a swine model of endothelial dysfunction". The American College of Surgeons' 97th Annual Clinical Congress, San Francisco, Ca., October, 25, 2011.

Crestanello JA. Postoperative Hyponatremia Predicts An Increase In Mortality And In Hospital Complications After Cardiac Surgery. The American College of Surgeons' 97th Annual Clinical Congress, San Francisco, Ca., October, 26, 2011.

Crestanello JA, Phillips G, **Sai-Sudhakar C**, **Sirak J**, **Firstenberg M**, **Higgins R**, Abraham WT. Preoperative Hyponatremia Potentiates the Effects of Left Ventricular Dysfunction on Mortality after Cardiac Surgery. American Heart Association 2011 Scientific Sessions. Orlando, Fl., November 12-16, 2011

Crestanello, JA. Surgical Management of Venous Thromboembolism. American Thoracic Society 2012 International Conference. Postgraduate Course of Venous Thromboembolism. San Francisco Ca., May 19, 2012.

Firstenberg MS, Herr D, David D. Development of an ECMO Program: Therapy Town Hall Round Table. Presented at CardioHelp: Transition to Therapy. Miami, Fl., October 17, 2011.

Firstenberg MS. Extra-corporeal Membrane Oxygenation (ECMO) for Acute Cardiopulmonary Failure: Driving the Therapy. Presented at CardioHelp: Transition to Therapy. Miami, FL., October 16-17, 2011.

Firstenberg MS. ECMO: Salvage Therapy for Acute Cardiac and Respiratory Failure. Presented at CardioHelp: Transition to Therapy. Half Moon Bay. San Francisco, Ca., August 28, 2011.

Firstenberg MS, Nair R. Development and Implementation of an Extra-corporeal Membrane Oxygenation Program: Therapy Town Hall Q&A. Presented at CardioHelp: Transition to Therapy. Half Moon Bay. San Francisco, Ca., August 28, 2011.

Firstenberg MS. ECMO To Go: The Critical Need for Portable Technology. Presented at CardioHelp: Transition to Therapy. Key Biscayne, FL., June 12, 2011.

Angiolillo DJ, **Firstenberg MS,** Price MJ, et al. The Safety and Efficacy Of Cangrelor, a Short Acting, IV, Reversible, Platelet P2Y₁₂ Inhibitor In Patients Awaiting Cardiac Surgery: Results Of the BRIDGE Trial. Presented at Late Breaking Clinical Trials, to TCT (Transcatheter Cardiovascular Therapeutics). San Francisco, Ca., November 8, 2011.

Galantowicz, M. PICS~AICS- Pediatric and Adult Interventional Cardiac Symposium. Evolving Hybrid Programs-Communication is the Key! Boston, Ma., July 25, 2011.

Galantowicz, M. ICS~AICS- Pediatric and Adult Interventional Cardiac Symposium. Hybrid Therapy in HLHS-A Realistic Alternative to Norwood Stage I. Boston, Ma., July 27, 2011.

Galantowicz, M. Cardiology 2012. 16th Annual Update on Pediatric and Congenital Cardiovascular Disease. New Strategies in Cardiac Catheterization: Role of Exit Angiography After Surgical Procedures Orlando, FL., February 23, 2012.

Galantowicz, M. Cardiology 2012. 16th Annual Update on Pediatric and Congenital Cardiovascular Disease. New Strategies in Cardiac Catheterization: Will There Ever Be a Transcatheter Fontan? Orlando, FL., February 23, 2012.

Galantowicz, M. Cardiology 2012. 16th Annual Update on Pediatric and Congenital Cardiovascular Disease. New Strategies and Current Practices in Perfusion: Quick Hits- Bloodless Pediatric Heart Surgery Orlando, FL., February 23, 2012.

Galantowicz, M. Cardiology 2012. 16th Annual Update on Pediatric and Congenital Cardiovascular Disease. Looking Back/Looking Forward: How Would YOU Design Your Fellowship? Orlando, FL., February 23, 2012.

Galantowicz, M. Cardiology 2012. 16th Annual Update on Pediatric and Congenital Cardiovascular Disease. International Aid and Cardiac Missions. Essential Elements of an International Team. Orlando, FL., February 24, 2012.

Galantowicz, M. Cardiology 2012. 16th Annual Update on Pediatric and Congenital Cardiovascular Disease. Hot Topics in Cardiac Surgery. Orlando, FL., February 24, 2012.

Galantowicz, M. Cardiology 2012. 16th Annual Update on Pediatric and Congenital Cardiovascular Disease. Hybrids 2.0: Beyond HLHS- The Evolving Status of the Hybrid Procedure in HLHS. Orlando, FL., February 24, 2012.

Galantowicz, M. American College of Cardiology. ACC.12. Golden Moments: When is the Right Time to Intervene in Congenital Heart Disease? Chicago, IL., March 26, 2012.

Galantowicz, M. PICS-AICS: Pediatric and Adult Interventional Cardiac Symposium. Live Cases (Columbus, Montreal, Chicago). Chicago, IL., April 17, 2012.

Galantowicz, M. PICS-AICS: Pediatric and Adult Interventional Cardiac Symposium. Stenting PDA/ Banding PA's Should be the First Step for Palliation of HLHS. Chicago, IL., April 17, 2012.

Galantowicz, M. AATS/STS Congenital Heart Disease Symposium. In Favor of Hybrid Stage I. San Francisco, Ca., April 29, 2012.

Higgins, R. LVAD: New Developments & When to Refer. The Ohio State University Contemporary Multi-Disciplinary Cardiovascular Medicine Conference, Orlando, FL., October 2011

Higgins, R. Minimally Invasive Surgical Aortic Valve Replacement: Smaller Incisions and Less Sutures. American College of Surgeons Clinical Congress, San Francisco, Ca., October 25, 2011

Higgins, R Randomized Trail of Early Surgery vs. Conventional Treatment for Infective Endocarditis (EASE). AHA Scientific Session, Orlando, FL., November 16, 2011

Higgins, R. AATS Leadership Academy: When/How to Evaluate New Opportunities. AATS Annual Meeting, San Francisco, Ca., April 27 – May 3, 2012

Ravi Y, Karuppayyah S, Meduru S, Naidu S, Citro L, Khan M, Kuppusamy P, **Sai-Sudhakar CB.** Therapeutic Targeting of PTEN Modulates Vascular Remodeling in Chronic Hypoxia-Induced Pulmonary Hypertension. The Society of Thoracic Surgeons Annual Meeting. Ft Lauderdale, FL., February 2012.

Ravi Y, K. Selvendiran , P. Kuppusamy , **C. B. Sai-Sudhakar.** Is Peroxynitrite A Therapeutic Target In The Management Of Pulmonary Hypertension? 7th Annual Academic Surgical Congress. Las Vegas, Nv., February 14-16, 2012

Ravi Y, Karuppayyah S, Naidu SK, Meduru S, Citro L, Khan M, Rivera BK, **Sai-Sudhakar CB,** Kuppusamy P. Pharmacological Modulation of PTEN Ameliorates the Progression of Pulmonary Hypertension in Heart Failure. American Heart Association, Orlando, FL., 2012

Sirak J. Thoracoscopic and Hybrid RF Ablation for Atrial Fibrillation: Advantages and Technique. Adult Cardiac Skills Course, American Association of Thoracic Surgeons Meeting, San Francisco, Ca., April 28, 2012.

Local Presentations

Crestanello, JA Application of Robotics to Cardiovascular Disease. American Society of Clinical Anatomists Meeting. Columbus Oh., July 16, 2011.

Crestanello, JA Percutaneous Aortic Valve Replacement. Where are we now? Internal Medicine and Surgery Grand Rounds. The Ohio State University Medical Center. Columbus Oh., September 29, 2011.

Crestanello, JA Percutaneous Aortic Valve Replacement. Medtronic US Pivotal Trial marketing dinner. September 27, 2011.

Crestanello, JA Percutaneous Aortic Valve Replacement. Medtronic US Pivotal Trial marketing dinner. February 8, 2012.

Firstenberg, M Valvular Heart Disease. Cardiology Fellows Conference. The Ohio State University Medical Center. Columbus Oh., October 12, 2011.

Firstenberg, M Hyponatremia from the bedside to the bench. DHLRI Research Day. The Ohio State University Medical Center. Columbus Oh., October 11, 2011.

Firstenberg MS. Update on Extra-corporeal Membrane Oxygenation: Salvage Therapy for Acute Cardiopulmonary Failure. Presented at Medflight of Ohio: Monthly Lecture Series. Columbus, Oh., February 1, 2012.

Firstenberg MS. Wetlab CT surgery fellows. The Ohio State University Medical Center. Columbus Oh., February 9, 2012.

Firstenberg MS. Mitral Valve Surgery. Perioperative TEE conference. Wexner Medical Center. The Ohio State University. Columbus Oh., February 18, 2012.

Firstenberg MS. Trans Catheter Aortic Valve Replacement. The Fourth Annual Cardiovascular Disease in African-Americans Conference. Wexner Medical Center. The Ohio State University. Columbus Oh., April 26, 2012.

Firstenberg MS, Quarrie R, Lee DS, Pfeiffer DR, Zweier JL, Crestanello JA. Mitochondrial Uncoupling by Increased Proton Leak is Not a Mechanism of Decreasing Reactive Oxygen Species Production After Ischemia-Reperfusion. Presented at 16th Annual Department of Surgery Research Conference. The Ohio State University Medical Center. Columbus, Oh., June 10, 2011.

Higgins, R. Mended Hearts Program. Presenter, The Ohio State University Medical Center, Columbus, Oh., July 2011.

Higgins, R. Grand Rounds: Future of Bypass Surgery, Higgins R. Department of Surgery Grand Rounds, The Ohio State University, Columbus, Oh., October 21, 2011.

Higgins, R. Evolution of Heart Failure Therapies: Back to the Future of Heart Failure. Therapies Ohio State's Heart Failure at the Shoe X: Challenging Problems in Heart Failure, The Ohio State University, Columbus, Oh., November 18, 2011.

Higgins, R Grand Rounds: Lung Transplantation. Department of Surgery Grand Rounds, The Ohio State University, Columbus, Oh., February 16, 2012.

Higgins, R. Cardiac Transplantation in African Americans. 4th Annual Cardiovascular Disease in African Americans, Wexner Medical Center at The Ohio State University, Columbus, Oh., April 26, 2012.

McConnel, P. Mechanical Circulatory Support. Course 555 – Clinical Applications. The Ohio State University Veterinary School. Columbus, Oh., May 14, 2012.

Spata T, Kwiatkowski P, Kilic A, Sai-Sudhakar CB, Higgins RSD, Parthasarathy S. Novel large-animal model to study acute myocardial infarction using platelet-induced thrombus. The 23rd Annual Presidential Symposium, The Columbus Surgical Society. Columbus, Oh., March 3, 2012.

Spata T, Kwiatkowski P, Kilic A, Sai-Sudhakar CB, Higgins RSD, Parthasarathy S. Novel large-animal model to study acute myocardial infarction using platelet-induced thrombus. The Ohio State University Medical Center, Columbus, Oh., 2012.

Spata T, Kwiatkowski P, Kilic A, Sai-Sudhakar CB, Higgins RSD, Parthasarathy S. Novel large-animal model to study acute myocardial infarction using platelet-induced thrombus. 17th Annual Surgery Research Conference. The Ohio State University Medical Center, Columbus, Oh., May 25, 2012.

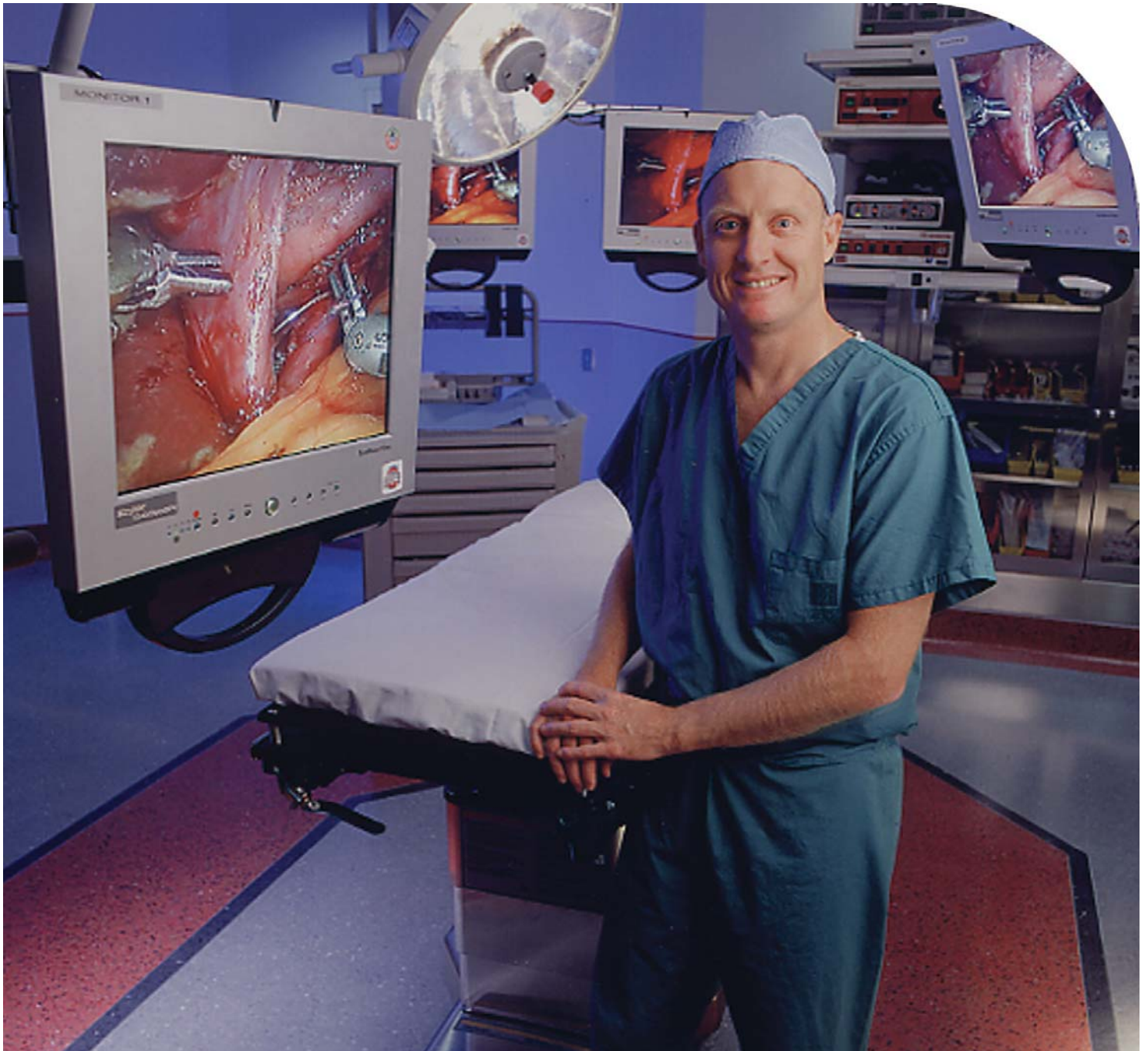
Sai Sudhakar CB. Chronic Left Ventricular Assist Device Therapy as Bridge to Heart Transplantation:Referral and Outcomes. Transplantation in 2011... Defining & Meeting the Challenges of a New Decade. Columbus, Oh., 2011.

Sai Sudhakar, CB. Mechanical Circulatory Support for Congestive Heart Failure - When, Who and Where to Refer. Association of Indian Physicians of Ohio (AIPO). Cleveland, Oh., 2011.

Sirak J. The Five-Box Thoracoscopic Maze Procedure. CME Presentation to the Ohio State University Department of Family Medicine, Columbus, Oh., October 6, 2011.

Sirak J. The OSU Thoracoscopic Maze Experience. CME Presentation to the Eastern Surgical Society, Ohio State University, Columbus, Oh., May 12, 2012.

Division of General and Gastrointestinal Surgery



General and Gastrointestinal Surgery



W. Scott Melvin, MD

Chief, Division of General and Gastrointestinal Surgery
Director, Center for Minimally Invasive Surgery

The Division of General and Gastrointestinal Surgery is committed to excellence in education, training, research and clinical care in general surgery, foregut, and colorectal surgery. We strive to offer the newest and most cutting edge treatments. Our surgeons are leaders in their respective fields and we continue to recruit the best and brightest talent to expand our Division's ability to offer the best to our patients. We continue to make contributions to surgery in the fields of gastroesophageal reflux disease, endoluminal and minimally invasive surgery, bariatric surgery, surgical endoscopy, and the treatment of malignant disease of the gastrointestinal tract, including pancreatic, esophageal, gastric and colorectal cancer. Surgical Education and the training of medical students, residents, fellows and physicians in practice is an integral piece of our Division's academic endeavors. We strive as group to cultivate those individuals with a passion for surgery, through one on one teaching opportunities, educational course series options, and hands-on instruction in clinical and laboratory settings. Our clinical teams are recognized by excellence in quality metrics and patient satisfaction. The Bariatric Surgery Program holds Center of Excellence status, four of our surgeons are recognized as Best Doctors in America and we serve as the treatment and referral center for gastrointestinal surgical disease in the region.

In basic and translational science research Chandan K. Sen, PhD, Vice Chair for Research in the Department of Surgery is the principal investigator of two active National Institutes of Health research projects and one Department of Defense project with total funding exceeding \$4 million. The primary focus of Dr. Sen's research is to study tissue injury, repair, remodeling, and survival. Dr. Sen is the Director of the Laboratory of Molecular Medicine and serves as the Deputy Director of the Davis Heart and Lung Research Institute. Dr. Sen also is the Associate Dean for Translational and Applied Research in the College of Medicine. In 2012 Dr. Sen was named the Director of the newly-created Center for Regenerative Medicine and Cell-Based Therapies (CRMCBT). The CRMCBT will use unique treat-

ments to help wound healing and the rehabilitation of those medical patients. The CRMCBT was created to further develop the research programs in these respective fields. The core mission of the center is to productively engage related expertise in the local community, both inside as well as outside Ohio State, and to deliver innovative health care solutions through multidisciplinary partnerships. The Center for Regenerative Medicine and Cell-Based Therapies is a collaborative effort among seven different colleges at Ohio State (Medicine, Engineering, Dentistry, Nursing, Veterinary Medicine, Arts and Sciences, and Pharmacy) and includes partnerships with Nationwide Children's Hospital and Battelle.

Dr. Sen is the Executive Director of the Comprehensive Wound Center (CWC), which combines patient care with research and education. The CWC serves over 1500 patient visits a month. The CWC funded its first clinical trial in 2006, and today there are six extramurally-funded trials that either have been completed or are in progress with Dr. Sen as the PI. At present the CWC has over a dozen faculty from six different Colleges making it a truly interdisciplinary program. Dr. Sen has served on the board of directors of the Wound Healing Society. Dr. Sen is also the Chair of the NIH's Surgery, Anesthesia and Trauma study section. He is the Editor-in-Chief of an international peer-reviewed journal, *Antioxidants & Redox Signaling* (www.liebertpub.com/ars) which has an impact factor of 8.209, ranking number 1 in the field. Dr. Sen serves as the Associate Editor of the prestigious journal *Physiological Genomics*, a publication of the widely respected American Physiological Society and is the Editor-In-Chief of *Advances in Wound Care* (www.liebertpub.com), the official yearbook of the Wound Healing Society. In addition, Dr. Sen serves on the editorial board of five other journals and as a peer reviewer of over 25 major journals. He serves as the program director of the Novel Clinical and Translational Methodologies and Pilot Studies programs of the Ohio State Center for Clinical and Translational Research (CCTS). The CCTS was awarded a NIH CTSA grant of \$34.1 million. Dr. Sen continues to serve as a voting member of NIH's national CTSA Public Private Partnerships Steering Committee. Dr. Sen serves as a faculty advisor on the OSU India Gateway Project for the OSU Globalization Initiative and in March 2012 Dr. Sen traveled with President E. Gordon Gee and Dr. William Brustein, OSU Vice Provost for Global Strategies and International Affairs to Mumbai, India for the OSU India Gateway Office opening celebration. In May 2012, Dr. Sen received the College of Engineering "Building Bridges" Excellence Award. The award is presented each year to a non-COE faculty member at Ohio State University whose collaborative work with the College of Engineering has advanced the excellence, impact and reputation of both colleges and the University.

Dr. Sashwati Roy, associate professor of Surgery, is building a diabetic wound healing program in partnership with the teams of Drs. Sen, Gordillo, and Melvin. In particular, her program focuses on the mechanisms of resolution of inflammation and impairment of this process in chronic wound of diabetics. The first paper related to this work was published last year [PLoS One. 2010 5(3):e9539]. Dr. Roy is an expert in microarray analyses and data mining in functional genomics, as well as laser capture microdissection. Dr. Roy serves as the Director of the Laser Capture Microdissection Core Facility. She is the principal investigator of an active National Institutes of Health research project with funding exceeding \$1.2 million, and is the co-investigator on three wound healing projects. She has recently received a major NIH instrumentation grant for the purchase of LCM equipment for the LCM core facility. Dr. Roy is an adhoc reviewer for NIH ACTS, S10 Sections and a reviewer for NIH challenge grants and veterans affairs (VA). She has published ten papers in reputed journals during

this academic year. She undertook to edit a book on inflammation that is scheduled to publish in fall 2012. In total, Dr. Roy has published over 185 scholastic journal articles and book chapters. In addition, Dr. Roy serves as a peer reviewer of nearly 20 major journals. Dr. Roy is a member of the Signature Program Translational Science Curriculum Sub-Committee and DHLRI space committee. She serves as a co-chair for the Program Committee of the Wound Healing Society (WHS). She enjoys working with undergraduates, medical students, and residents interested in the basic/translational science of wound healing. Last year she was invited to a number of international and national meetings to present her work. These meetings included invited lectures at the Society for Free Radical Research-Europe, September 3-7, 2011 in Istanbul, Turkey, the 12th Annual Wound Healing: Science and Industry Conference, December 8-11, 2011, in Puerto Rico, and the Joint Meeting of the ESM and GfMVB, October 13-16, 2011 in Munich, Germany.

Dr. Savita Khanna, assistant professor in the Department of Surgery since July 2009 is building a research program on brain injury and rescue. She has extensive experience in *in vitro* and *in vivo* studies related to mechanisms of neurodegeneration and interventional rescue. The first paper related to this work was published in 2010 [J Cereb Blood Flow Metab. 2010 Jul; 30(7):1275-87.] and the second paper related to this work was published last year [Antioxidants & Redox Signaling. 2011 May 15; 14(10):1777-85.]. This work was rated as being extraordinary and as such has been featured in the national NIH publication NCCR reporter (summer/fall 2011 issue). Dr. Khanna recently received an American Heart Association grant, Beginning Grant-in-Aid (BGIA). She has four competitive grants including the BGIA, a Research Investment Fund (RIF) award, an NIH-sponsored Clinical and Translational Science Award (CTSA) Pilot Award, and the Center for Clinical and Translational Science (CCTS) NCTMP Matching Dissemination Funds award within the last four years. Dr. Khanna served on the DHLRI (Davis Heart and Lung Research Institute) Education Committee (2009-2011). She was a reviewer for the Research Grant Council (RCG) in Hong Kong, China and the CCTS Early Stage Investigator Selection Committee during this academic year. Dr. Khanna won the Professor T.K. Hunt Award for Outstanding Assistant Professor Award, 5th Annual Translational to Clinical (T2C) Regenerative Medicine Wound Care Conference, Columbus, Ohio in March 2012. She serves as the managing editor for the international peer-reviewed journal, *Antioxidants & Redox Signaling*, which has an impact factor of 8.209, ranking number 1 in the field. She also serves as a peer reviewer for 17 major journals. Dr. Khanna has published eight papers in reputed journals during this academic year. In total, Dr. Khanna has published over 93 journal articles and book chapters. She has presented her work at meetings and conferences both nationally and internationally. Dr. Khanna works with a highly-skilled team of collaborators (Cameron Rink, PhD, Periannan Kuppusamy, PhD, and Andrew Slivka, MD) and is building a successful laboratory and research program.

Dr. E. Christopher Ellison, the Robert M. Zollinger professor and chairman of Surgery, was appointed as the CEO of the Faculty Group Practice in July 2011, is the Senior Associate Vice President for Health Sciences and continues to serve as Vice Dean for Clinical Affairs in the College of Medicine. He was recently recognized as a College of Medicine Distinguished Professor. He completed his term as the Chair of the American Board of Surgery in June of 2011. He continues to serve as Secretary of the American Surgical Association and Treasurer of the James IV Association of Surgeons. He was recently appointed the Chair of American College of Surgeon's Advisory Council for General Surgery. Repeatedly recognized as one of the nation's top physicians, Dr. Ellison was listed again this year by Best Doctors in America.

Dr. Ellison's book, co-authored with Dr. Thomas E. Williams, Jr. and Dr. Bhagwan Satiani, "*The Coming Shortage of Surgeons: Why They Are Disappearing and What That Means for Our Health*" was published in September 2009 and is a quantitative analysis of the workforce in orthopedic and thoracic surgery, otolaryngology, obstetrics and gynecology, general surgery, neurosurgery, and urology. In the fall of 2010, along with Robert M. Zollinger, Jr., MD, FACS, Dr Ellison completed the ninth edition of the *Zollinger Atlas of Surgical Operations* published by McGraw-Hill. Dr. Ellison maintains an active clinical practice focusing on pancreatic diseases in particular pancreatic cancer and neuroendocrine tumors, and he continues to serve as an outstanding teacher of medical students and residents.

W. Scott Melvin, MD, professor of surgery, is the Chief of the Division, as well as the Director of the Center for Minimally Invasive Surgery and the Senior Vice Chairman for Academic and Administrative Affairs the Department of Surgery. Dr. Melvin's clinical practice focuses on advanced minimally invasive surgical treatments for gastroesophageal reflux disease, benign and malignant esophageal disease, as well as advanced hepatobiliary surgery. In addition to his leadership within the Medical Center, Dr. Melvin is a member of a variety of local, national and international societies. In April 2012 Dr. Melvin was named the 30th President of the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES). Throughout his year as President of SAGES, he will speak at many national and international meetings and oversee the mission of the organization, which consists of over 5000 surgeons and allied health professionals. Dr. Melvin is the Editor in Chief of the *Journal of Surgical Laparoscopy* and *Annals of Surgery*, and serves on the editorial board of *Surgical Endoscopy* and *Surgical Innovations*. He is also the American Board of Surgery representative on the Advisory Board in General Surgery for the American College of Surgeons.

Mark W. Arnold, MD, professor of clinical surgery, is the Vice Chair for Education in the Department of Surgery and the Director of the General Surgery residency program. The residency program continues to grow in prestige and volume with 44 residents in total, graduating six per year. Dr. Arnold also participates as an instructor for the Colorectal Fellowship program. He is actively involved in committee work at the Wexner Medical Center, sitting on the GI Culture Subgroup, GME Strategic Planning committee, GI Oncology Steering Committee and the Department of Surgery's Executive Committee. Dr. Arnold is also actively involved in the GME Strategic Planning committee, which provides oversight to the various academic residency and fellowship programs through the Medical Center. While participating in all levels of education, he maintains a busy clinical practice that focuses on treatment of colorectal diseases and disorders. In July 2012 Dr. Arnold will oversee the newly created Division of Colon and Rectal Surgery as the Division Chief.

In June 2012 we welcomed Dr. Daniel Geisler, associate professor of clinical surgery. Dr. Geisler brings with him a very busy clinical practice focusing on minimally invasive colorectal surgery including laparoscopy, single-incision laparoscopy, TEM, T.A.M.I.S., and advanced lower endoscopy, Inflammatory Bowel Disease (Ulcerative Colitis and Crohn's Disease), rectal cancer with emphasis on Sphincter-Preservation, and benign and malignant colorectal disease. He will serve as the Co-Director of the newly instituted Inflammatory Bowel Disease clinic. Dr. Geisler's research interests include innovations in minimally invasive colorectal surgery and enhanced recovery pathways. We look forward to helping Dr. Geisler continue grow his practice and are happy to have him join our team.

Alan Harzman, MD, assistant professor of clinical surgery, continues to expand his busy clinical practice specializing in treatment of benign and malignant disease of the colon. His primary clinical focus is the treatment of colorectal diseases and disorders, offering advanced minimally invasive approaches for many. Heavily involved in medical education endeavors and on committees hospital wide, Dr. Harzman took over for Robert Ruberg, MD in July 2011, as Director of the College of Medicine's Learning Communities Program. In this role, he helps to organize groups of 12 students to meet with their faculty leaders and to join Learning Societies and get to know students from other classes. Dr. Harzman was also elected by the medical staff of University Hospital to serve on the Medical Staff Administrative Committee (MSAC) and started his two-year term in July, 2011. He was elected Vice-President/President-Elect of the COM's Faculty Council and started that two-year term in July, 2011. Alan serves on the Clinical Sciences Curriculum Implementation Team for the Lead.Serve.Inspire Curriculum that starts this fall. Together with several other members of the Departments of Surgery, Anesthesiology and Obstetrics and Gynecology, Dr. Harzman is helping to develop an integrated medical student clerkship integrating experiences in those two specialties as well as anesthesia and other surgical specialties. He was chosen as this year's College of Medicine 2012 Excellence in Teaching Award recipient, which is a prestigious accomplishment. Outside of Ohio State, Dr. Harzman serves on various committees of the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES), the American College of Surgeons, the American Society for Colon and Rectal Surgery, and Association of Surgical Education. In May 2011 he was elected as a Fellow of the American Society of Colon and Rectal Surgeons. This year Dr. Harzman was chosen to attend the American College of Surgeons' Surgeons as Leaders course in Chicago. This is a three day leadership course for surgeons.

Jeffrey Hazey, MD is associate professor of surgery and the director of the Fellowship in Advanced Therapeutic Endoscopy and Gastrointestinal Surgery. He is an active member on Hospital based committees and continues to serve as an at-large member on the OSU Surgery Board of Directors, the OUMC Health Systems Physician Executive Council, and is the surgery representative on both the Integrated Health Information Systems Implementation Committee and the OpTime Steering Committee. In 2012 Dr. Hazey was chosen to participate in the Talent Management and Leadership Development Academy (TMALDA), an 18 month course designed to prepare faculty in the surgical specialties for surgical leadership positions by experiencing educational exercises and practical experience. His clinical practice focuses on advanced therapeutic endoscopy, including ERCP, as well as advanced minimally invasive surgical procedures. Beyond his endeavors at Ohio State, Dr. Hazey is very active in a number of national organizations, and was recently named a Co-Chair of the Society for American Gastrointestinal and Endoscopic Surgeons Global Affairs Committee. The focus of this committee is to promote collaboration and exchange of knowledge to optimize patient care by encouraging global collaboration in research, education, and innovation. Dr. Hazey was also selected by SAGES to receive the 2012 Brandeis Award at the national meeting. This \$8,000 competitive scholarship provides tuition and expenses for attendance at the Leadership Program in Health Policy and Management at the Heller School for Policy and Management at Brandeis University. The purpose of this prestigious and competitive award is to train clinical leaders in healthcare policy and management.

Syed Husain, MD, assistant professor of clinical surgery, continues to grow his clinical practice, with a specialty focus on minimally invasive treatments for benign and malignant colon and rectal disease. He is an active participant in medical student and resident educational activities, as well as the Colorectal Fellowship program. In 2012 Dr. Husain received The Department of Surgery Michael J. Walker, MD Faculty Teaching Award. This award is bestowed by the medical students in recognition of excellence in teaching.

Andrei Manilchuk, MD, assistant professor of clinical surgery, continues to grow his clinical practice in general surgery, focusing on complicated hernia repair and hepatobiliary disease. He participates in various workshops in advanced surgical techniques for colon surgery and for abdominal wall reconstruction and continues to be a valuable resource for a variety of advanced surgical diseases. Dr. Manilchuk is a dedicated educator of residents and medical students alike, often recognized for his achievements in this arena. In 2012 he was also recognized for having outstanding patient satisfaction scores, which is a top priority for the Medical Center leadership team.

Dean Mikami, MD, assistant professor of surgery, continues his busy clinical practice focusing on advanced minimally invasive surgical procedures specializing in laparoscopic bariatric surgery, minimally invasive approaches for hernia repair, and novel endoluminal therapies. Dr. Mikami is active within the Medical Center, serving on the Quality Assurance and Patient Affairs Committee and Professionalism Committee and participating in the ongoing training programs for medical students, residents and fellows. On a national level he plays an active role in both the Society of American Gastrointestinal Endoscopic Surgeons and the American Society of Metabolic and Bariatric Surgery (ASMBS), serving on multiple subcommittees. At the 2012 ASMBS national meeting, Dr. Mikami was the Course Director of the Flexible Endoscopic Course, which had over 30 physician participants. During the national meeting of SAGES, he gave a talk on Endoscopic Techniques for SAGES Top 21 Videos presentation and was the Co-Committee Leader presenting on Fundamental Use of Surgical Energy (FUSE). Dr. Mikami continues to be an invited speaker on minimally invasive topics such as hernia repair, bariatric surgery and endoluminal therapies for surgery. He provided Grand Rounds at the University of Edmonton, Edmonton, Canada and was a guest speaker in Suzhou, China, providing lectures on advanced endoluminal and minimally invasive surgery therapy. Dr. Mikami also served on the editorial board for the book "Evidence Based Minimally Invasive Surgery" which was released this year.

Peter Muscarella, MD, associate professor of surgery, serves as the Assistant Program Director for the Surgical Residency Training Program and the Director of the Surgical Clerkship for medical students. Under his direction the Department of Surgery has implemented the American College of Surgeon's (ACS) Surgical Skills Curriculum for all general surgery residents. Dr. Muscarella is committed to the cultivation of medical students interested in pursuing a career in surgery. He is the Director of the Honors Program in Surgery, which accepts only the best and brightest medical students, and helps them to understand and appreciate the ever changing field of surgery. Dr. Muscarella's research and clinical practice focuses on pancreatic surgery. In 2012, he performed more than 50 computer-assisted (robotic) surgeries, including the first single port robotic cholecystectomy performed in central Ohio. Dr. Muscarella is engaged in educational research, studying medical student surgical skills acquisition.

Vimal Narula, MD, assistant professor of clinical surgery continues to expand his clinical practice with a focus on advanced therapeutic endoscopy, including ERCP, and minimally invasive surgical treatments for common general surgery procedures. Dr. Narula is an active member of the educational team, and serves as an instructor for continuing medical education courses offered through the Center for Minimally Invasive Surgery. He is a committed instructor for Surgical Skills Curriculum and Fundamental of Laparoscopic Surgery for the general surgery residents. This year Dr. Narula completed the Faculty Teaching Scholars Program (FTSP), which couples work on teaching skills, and leadership training with scholarship training and a project. Continuing to participate in the expanding field of NOTES research, Dr. Narula completed an investigator initiated study looking at the safety and feasibility of transvaginal cholecystectomy. He performed the first transvaginal cholecystectomies in the state of Ohio. This study was a stepping stone to a larger, multi-center trial sponsored by Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR) which is currently ongoing.

Bradley Needleman, MD, associate professor of clinical surgery and Medical Director of the Comprehensive Weight Management Center and the Metabolic Bariatric Surgery Center at The OSU Medical Center, continued his work over the past year to expand the offerings of the bariatric surgery program. Additional surgical options are being offered by the program at a growing rate, including sleeve gastrectomy and endoluminal plication for obesity. Beyond his leadership role with the Medical Center, Dr. Needleman is active in the American Society for Metabolic and Bariatric Surgery (ASMBS). In June 2012 he was appointed to the Program Committee for ASMBS, which as a group establishes agendas and organizes all national and international ASMBS sponsored courses throughout the year. Dr. Needleman was the course director for the Bariatric Surgery Day of the most recent Advances in Minimally Invasive Surgery course offered through the Center for Minimally Invasive Surgery. He continues to be active in bariatric research, presenting his most recent data at a podium presentation at the annual SAGES meeting in San Diego, California.

Kyle Perry, MD, assistant professor of surgery, joined our Division in July 2009. His clinical practice focuses on the treatment of benign and malignant esophageal and gastric disorders including esophageal and gastric cancer, Barrett's esophagus and minimally invasive approaches to gastroesophageal reflux disease (GERD). Dr. Perry is an active member of the University Hospital Technology Assessment Committee, and the James Cancer Hospital GI Oncology Steering Committee and Utilization Management Committee. Beyond the medical center, Dr. Perry is an active member in the Society of American Gastrointestinal Endoscopic Surgeons and the Society for Surgery of the Alimentary Tract where he serves on multiple committees. He has also served as an abstract and research grant reviewer for each of these societies since 2010, and as an ad hoc reviewer for several peer reviewed surgical journals. Since 2011, he has presented eleven abstracts in oral or poster form at national meetings, and has published several articles in peer reviewed journals. Dr. Perry's current research endeavors include serving as the PI for a randomized controlled clinical trial entitled "Impact of Median Nerve Stimulation on Retching and Nausea after Laparoscopic Foregut Surgery" and he also serves as the Site PI in a multi-center trial entitled "Randomized Esophyx Versus Sham/Placebo Controlled TIF Trial: The RESPECT study".

Dr. David Renton, assistant professor of clinical surgery, became a member of our team in August 2009. His clinical practice at University Hospital East focuses on minimally invasive treatment options for a variety of gastrointestinal surgical operations, including “single-incision” options for such common operations as gall bladder removal, hernia repair, and some colorectal procedures. His dedication and interest in surgical education is also an asset to our team, and this year Dr. Renton led all of the hands-on Surgical Skills labs for the rotating Med III students. These courses are ran every eight weeks and teach 3rd year medical students laparoscopic skills, which include modules from the Fundamentals of Laparoscopic Surgery training they will encounter in residency. This year Dr. Renton also published a book chapter entitled “Laparoscopic Cholecystectomy with and without Common Bile Duct Exploration” which appears in the book *Master Techniques in General Surgery: Hepatobiliary and Pancreatic Surgery*.

Richard Schlanger, MD, PhD, associate professor of clinical surgery, serves as the Chief of Surgical Services at University Hospital East and the Clinical Director of the Comprehensive Wound Center of the Ohio State University. He maintains an extremely busy general surgery clinical practice, with special focus on complex wounds. This year Dr. Schlanger worked on a number of collaborative efforts focused on Wound Care. He was involved in a statewide effort to coordinate wound care and wound research through Heal Ohio and is continuing to work with wound specialists from Harvard, University of Pennsylvania, University of Miami (FL), Stanford and the University of Arizona to better understand team approach to wound healing. Dr. Schlanger serves as a consultant for Wound Care on a national level, serving as a consultant for the development of an Electronic Medical Record specific for wound care and the wound care industry. Additionally, he continues to serve as an adviser for negative vacuum therapy for CMS, the Medicare/Medicaid intermediary. This year Dr. Schlanger has also patented a new scope to explore deep and tunneling wounds.

Minimally Invasive Surgery

The Center for Minimally Invasive Surgery (CMIS) is a multidisciplinary center dedicated to the achievement of excellence in patient care, clinical training, research and outcomes studies pertaining to the techniques and technology of minimally invasive surgery. The Center strives to expand the ever changing field of surgery and 2011-2012 brought continued expansion of our educational and research endeavors.

Education

This year, CMIS continued its efforts with the Department of Surgery residency training program in the offering of the weekly surgical skills labs based on the American College of Surgeons (ACS) surgical skills curriculum. Skills labs consisted of varying different structures of animate, inanimate, and didactic settings for the various different levels of post graduate year (PGY) residents. Sessions vary in topic based on the training level of the learner. CMIS also collaborated with the Department of Surgery medical student training program in teaching the Fundamentals of Laparoscopic Surgery (FLS) to all third year medical students while on their surgery rotation.

Additionally, CMIS held eleven Continuing Medical Education (CME) and non-CME courses during July 2011 through June 2012 with over 293 participants that consisted of practicing surgeons, allied

health professionals, surgical fellows and residents. Course topics included bariatric surgery, complex minimally invasive hernia repair, endoscopy, laparoscopic colon surgery, gastroesophageal reflux disease (GERD), and robotic urologic and gynecologic surgery. This year, CMIS co-hosted the 12th annual *Advances in Minimally Invasive Surgery* conference with Case Western Reserve University Department of Surgery. This 4-day conference held in Marco Island, Florida included 53 participants and featured various topics and discussions on advancements in minimally invasive general surgery as well as an entire day dedicated to lectures related to bariatric surgery.

In the field of robotic surgery, this year also brought about the expansion of the OSU Allied Health Robotics Training programs. Lead by Lynda Jayjohn, RN, robotics nurse manager, these training programs have become widely sought after. In the last year alone, CMIS has seen a fifty-four percent increase in program participants. The OSU robotics team has trained a total of 105 teams from various hospitals across the country. Programs are tailored to fit the needs of that programs needs, whether it is for beginners, intermediate/advanced, or executive development. Course topics include troubleshooting, OR efficiency, marketing, quality, and robotic system overview. New this year, CMIS and Ohio State's Center for Advanced Robotic Surgery featured a 1.5-day course on *Shortening the Learning Curve for Robotic Surgery in Gynecology*. This conference emphasized the surgical techniques and operating room efficiency as it relates to robotic general gynecologic surgery. The 86 participants consisted of residents, fellows, allied health professionals, and practicing physicians and took place in the newly expanded Clinical Skills Center at The Ohio State University and included didactic and hands-on technique training with the *da Vinci®* Surgical System.

Our minimally invasive surgery training program, which is a one-year, dedicated experience in advanced laparoscopic surgery, remains one of the premier MIS surgical fellowships in the country. This year we welcomed two new clinical assistant professors, Dr. Jeffrey Eakin and Dr. Brendan Marr. Each had a very busy clinical year, completing more than 350 advanced laparoscopic surgeries and endoscopies. They participated in a number of research projects, leading to presentations at the national level future publications. In addition to their clinical and research responsibilities, each participated in multiple CMIS continuing medical education programs and resident skills labs.

Additionally, the Center for Minimally Invasive Surgery, welcomed Dr. Kashif Zuberi, clinical assistant professor of surgery, who completed a one year training program in Advanced Therapeutic Endoscopy and Gastrointestinal Surgery. Dr. Zuberi had a very busy clinical year, completing more than 800 basic and advanced endoscopic procedures including ERCP in addition to his surgical case load. He participated in a number of research projects, continuing medical education programs and resident surgical skills labs.

Research

In 2012, CMIS researchers received several awards at the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) meeting held in March 2012 in San Diego, CA. Jeffrey W. Hazey, MD, was awarded the Brandeis Award by the SAGES Foundation and Mark Wendling, MD, a resident from the OSU Department of Surgery residency program who is completing a research year with CMIS, was awarded a \$24,212 grant from the SAGES Foundation for his research project entitled, "Near Infrared Fluorescent Cholangiography (NIRF-C) for Biliary Imaging during Laparoscopic Cholecystectomy." This project is slated to commence summer, 2012.

The field of metabolic/bariatric surgery also continues to be a major focus of the Center's research. Metabolic disorders, such as diabetes, are some of the fastest growing complications that arise from obesity and surgical intervention often leads to resolution of such metabolic disorders. Asem Ali, MD, who holds a joint appointment with the Division of Endocrinology, Diabetes and Metabolism and the Division of General and Gastrointestinal Surgery, joined the CMIS in 2012 and is currently the principal investigator appointed to a \$525,451 grant from Covidien for a project entitled: "Metabolic Surgery vs. Medical Management for Resolution of Type II Diabetes." This study will enroll a total of 120 subjects and enrollment in this study remains ongoing.

Also, CMIS researchers Bradley J. Needleman, MD, Associate Professor of Surgery and Medical Director of OSU's Bariatric Surgery Program, and Dean J. Mikami, MD, Assistant Professor of Surgery, are collaborating with Dr. Ali Rezai, Professor of Surgery, Department of Neurosurgery on a project entitled "Deep Brain Stimulation for Morbid, Treatment-Refractory Obesity." Deep brain stimulation has been used to successfully treat Parkinson's disease for over 20 years. Dr. Rezai has received an Investigational Device Exemption (IDE) from the FDA to treat five patients who have undergone Roux-en-Y gastric bypass surgery, yet continue to struggle with weight gain, with deep brain stimulation. Enrollment is currently underway.

Beginning in June 2012, CMIS researchers, Drs. W. Scott Melvin, Jeffrey Hazey and Kyle Perry will be mentoring three first year medical students who were awarded summer scholarships through the Landacre Society. Projects will focus these topics: women's attitudes towards transvaginal Natural Orifice Transluminal Endoscopic Surgery (NOTES), conducting a comparative cost analysis among surgeries performed to treat gastroesophageal reflux disease (GERD) and finally performing an animal experiment entitled "Prophylactic Mesh Placement for Incisional Hernia Prevention."

Faculty

W. Scott Melvin, MD

Professor of Surgery; Vice Chairman for Academic Affairs, Department of Surgery; Chief, Division of General and Gastrointestinal Surgery; Director, Center for Minimally Invasive Surgery

BS: Ohio Northern University, Ada, Oh., 1983

MD: Medical College of Ohio, Toledo, Oh., 1987

Specialty Training: University of Maryland, College Park, Md.; Ohio Digestive Disease Institute, Columbus, Oh.

Appointment: 1993

Specialty Interests: Gastrointestinal, hepatobiliary, and pancreatic surgery; advanced laparoscopic techniques

Research Interests: Laparoscopic surgery education and training, molecular biology of pancreatic cancer, experimental therapies for pancreatic cancer



Melvin



Arnold

Mark W. Arnold, MD

Professor of Clinical Surgery; Vice Chairman for Surgical Education, Department of Surgery

BA: University of Virginia, Charlottesville, Va., 1979

MD: New York University, New York, NY, 1983

Specialty Training: Jackson Memorial Hospital, University of Miami Medical Center, Miami, FL; Grant Medical Center, Columbus, Oh.

Appointment: 1990

Specialty Interests: Colon and rectal surgery

Research Interests: Radioimmunoguided antibodies for diagnosis and treatment of colon and rectal cancers



Eakin

Jeffrey L. Eakin, MD

Clinical Assistant Professor of Surgery

BA: Miami University, Oxford, Oh., 2001

MD: The Ohio State University, Columbus, Oh., 2006

Specialty Training: Residency in general surgery, The Ohio State University, Columbus, Oh.

Appointment: 2011

Specialty Interests: Laparoscopic, bariatric and robotic surgery

Research Interests: Surgical education

E. Christopher Ellison, MD

The Robert M. Zollinger Professor of Surgery; Chairman, Department of Surgery; Associate Vice President for Health Sciences and Vice Dean of Clinical Affairs, College of Medicine; CEO, Faculty Group Practice; College of Medicine Distinguished Professor

BS: University of Wisconsin, Madison, Wi., 1972

MD: Medical College of Wisconsin, Milwaukee, Wi., 1976

Specialty Training: Residency in general surgery, The Ohio State University, Columbus, Oh.

Appointment: 1993

Specialty Interests: Surgery of the liver, biliary tree, and pancreas

Research Interests: Gastrinoma and Zollinger-Ellison syndrome, pancreatic and hepatic cancer



Ellison

Daniel P. Geisler, MD

Associate Professor of Clinical Surgery

BA: Austin College, Sherman, Tx., 1990

MD: St. Louis University, St. Louis, Mo., 1996

Specialty Training: Residency in general surgery, University of Oklahoma, Tulsa, Ok.; residency in colon and rectal surgery, St. Vincent Health Center, Erie, Pa.; fellowship in minimally invasive surgery, The Lankenau Hospital and Institute for Medical Research, Wynnewood, Pa.

Appointment: 2012

Specialty interests: Minimally invasive colorectal surgery, inflammatory bowel disease, colon and rectal cancer



Geisler

Alan E. Harzman, MD

Assistant Professor of Clinical Surgery

BS: Vanderbilt University, Nashville, Tn., 1997

MD: Washington University, St. Louis, Mo., 2001

Specialty Training: Residency in general surgery, University of Texas Southwestern Medical Center, Dallas, Tx.; fellowship in colon and rectal surgery, Baylor University Medical Center, Dallas, Tx.

Appointment: 2007

Specialty Interests: Colon and rectal surgery

Research Interests: Colon and rectal surgery



Harzman

Jeffrey W. Hazey, MD

Associate Professor of Surgery

BA: Miami University, Oxford, Oh., 1987

MD: Case Western Reserve University, Cleveland, Oh., 1992

Specialty Training: Residency in general surgery, University Hospitals of Cleveland; fellowship in nutrition and surgery research, Case Western Reserve University/Mount Sinai Medical Center; fellowship in advanced laparoscopic and endoscopic surgery, Cleveland Clinic, Cleveland, Oh.

Appointment: 2003

Specialty Interests: Minimally invasive surgery, advanced endoscopy, endoscopic retrograde cholangiopancreatography

Research Interests: Minimally invasive surgery, natural orifice transluminal endoscopic surgery (NOTES), endolumenal treatment options



Hazey

Syed G. Husain, MD

Assistant Professor of Clinical Surgery

MBBS: Dow Medical College, Karachi, Pakistan

Specialty Training: Residency in general surgery, Harlem Hospital Center, New York, NY; fellowship in clinical research, University of Illinois at Chicago, IL; fellowship in minimally invasive surgery, University of Rochester, Rochester, NY; fellowship in colorectal surgery, Brown University, Providence, RI

Appointment: 2008

Specialty interests: Minimally invasive colorectal surgery

Research Interests: Natural orifice transluminal endoscopic surgery



Husain

Savita Khanna, PhD

Assistant Professor of Surgery

BS: Meerut University, Meerut, Uttar Pradesh, India, 1984

MS: Meerut University, Meerut, Uttar Pradesh, India, 1986

MPh: Meerut University, Meerut, Uttar Pradesh, India, 1988

PhD: University of Kuopio, Kuopio, Finland, 2000

Specialty Training: Research fellowship in molecular and cell biology, University of California, Berkeley

Appointment: 2009

Research Interests: Tissue injury and repair, neurodegeneration and stroke



Khanna

Andrei V. Manilchuk, MD

Assistant Professor of Clinical Surgery

MD: Gorky State Medical Institute, Nizhny Novgorod, Russia, 1984

Specialty Training: General surgery and surgical oncology, Nizhny Novgorod Medical Academy and Regional Cancer Center, Nizhny Novgorod, Russia; general surgery, The Ohio State University, Columbus, Oh.

Appointment: 2003

Specialty Interests: Gastrointestinal and pancreatobiliary surgery



Manilchuk

Brendan M. Marr, MD

Clinical Assistant Professor of Surgery

BA: Purdue University, West Lafayette, In., 2002

MD: Indiana University, Indianapolis, In., 2006

Specialty Training: Residency in general surgery, Michigan State University, Lansing, Michigan

Appointment: 2011

Specialty Interests: Minimally invasive surgery, bariatric and metabolic surgery, robotic surgery

Research Interests: Foregut and bariatric surgery



Marr

Dean J. Mikami, MD

Assistant Professor of Surgery

BA: University of Hawaii, Manoa, Hi., 1991

MD: University of Kansas, Kansas City, Ks., 1997

Specialty Training: Residency in general surgery and fellowship in minimally invasive surgery, The Ohio State University, Columbus, Oh.

Appointment: 2003

Specialty Interests: Minimally invasive surgery, bariatric surgery, hernia treatment options

Research Interests: Minimally invasive surgery, natural orifice transluminal endoscopic surgery (NOTES)



Mikami

Peter Muscarella, II, MD

Associate Professor of Surgery; Director, Surgical Clerkship

BS: University of Rochester, Rochester, NY, 1989

MD: New York Medical College, Valhalla, NY, 1993

Specialty Training: Residency in general surgery, The Ohio State University, Columbus, Oh.

Appointment: 2000

Specialty Interests: General surgery, endocrine gastrointestinal disease, liver, pancreas

Research Interests: Pancreatic cancer, pancreatic neuroendocrine tumors



Muscarella

Vimal K. Narula, MD

Assistant Professor of Clinical Surgery

BS: Marshall University, Huntington, WV, 1995

MD: Marshall University, Huntington, WV, 1999

Specialty Training: Residency in general surgery, Marshall University; fellowship in minimally invasive surgery and fellowship in advanced therapeutic endoscopy, The Ohio State University, Columbus, Oh.

Appointment: 2005

Specialty Interests: Minimally invasive surgery, foregut surgery, advanced therapeutic endoscopy

Research Interests: Natural orifice transluminal endoscopic surgery (NOTES), robotic surgery



Narula

Bradley J. Needleman, MD

Associate Professor of Clinical Surgery; Director, Bariatric Surgery Program

BA: Vassar College, Poughkeepsie, NY, 1990

MD: Mount Sinai School of Medicine, New York, NY, 1994

Specialty Training: Residency in general surgery, Washington Hospital Center, Washington, D.C.; fellowship in minimally invasive surgery, The Ohio State University, Columbus, Oh.

Appointment: 2000

Specialty Interests: Advanced laparoscopic surgery, obesity surgery

Research Interests: Minimally invasive surgery, surgical education



Needleman

David Renton, MD

Assistant Professor of Clinical Surgery

BS: Tulane University, New Orleans, La., 1994

MD: Louisiana State University, New Orleans, La., 2001

Specialty Training: Master of Public Health, Tulane University School of Public Health, New Orleans, La., 1997

Appointment: 2009

Specialty Interests: Bariatrics, natural orifice transluminal endoscopy surgery (NOTES)

Research Interests: Advanced technology



Renton

Sashwati Roy, PhD

Associate Professor of Surgery

BS: Meerut University, Meerut, India, 1984

MS: Meerut University, Meerut, India, 1986

PhD: University of Kuopio, Kuopio, Finland, 1994

Appointment: 2000

Research Interests: Antioxidant and redox biology focusing on signal transduction and gene expression



Roy

Richard E. Schlanger, MD, PhD

Associate Professor of Clinical Surgery; Director, Center of Advanced Wound Management and chief, Surgical Services, University Hospital East

MD: Faculté de Médecine, Toulouse, France, 1980

PhD: Faculté de Médecine, Toulouse, France, 1982

Specialty Training: The Ohio State University, Columbus, Oh.

Appointment: 2000

Specialty Interests: General surgery, wound healing

Research Interests: Wound healing



Schlanger

Chandan K. Sen, PhD

Professor of Surgery; Vice Chairman for Research, Department of Surgery; Associate Dean for Translational and Applied Research, College of Medicine; Deputy Director, Davis Heart and Lung Research Institute; Director, DNA Microarray and Genetics Facility, Davis Heart and Lung Research Institute; Professor, Department of Molecular and Cellular Biochemistry

BS: Calcutta University, Calcutta, India, 1987

MS: Calcutta University, Calcutta, India, 1990

PhD: University of Kuopio, Kuopio, Finland, 1994

Appointment: 2000

Research Interests: Wound healing, redox control of biological events, role of oxygen- and nitrogen-derived species in signal transduction and gene expression



Sen

Kashif A. Zuberi, MBBCh

Clinical Assistant Professor of Surgery

MBBCh: The Royal College of Surgeons in Ireland, Dublin, Ireland, 2002

Specialty Training: General surgery residency, Johns Hopkins Hospital, Baltimore, Md.; general surgery residency, Marshfield Clinic/St. Joseph's Hospital, Marshfield, Wi.

Appointment: 2011

Specialty Interests: Minimally invasive surgery, surgical endoscopy

Research Interests: Cancer biology, health care policy



Zuberi

Clinical Faculty

Robert E. Falcone, MD

Clinical Professor of Surgery

BA: Kent State University, Kent, Oh., 1973

MD: The Ohio State University, Columbus, Oh., 1976

Jeffrey T. Innes, MD

Clinical Assistant Professor of Surgery

BS: University of California, Davis, Ca., 1976

MD: University of California, Davis, Ca., 1980

Bruce A. Kerner, MD

Clinical Assistant Professor of Surgery

BS: University of Tampa, Tampa, Fl., 1980

MD: Chicago Medical School, Chicago, Il., 1984

Richard C. Rooney, MD

Clinical Assistant Professor of Surgery

BS: University of Cincinnati, Cincinnati, Oh., 1964

MD: University of Cincinnati, Cincinnati, Oh., 1967

Thomas T. Vogel, M.D., PhD

Clinical Assistant Professor of Surgery

BA: Holy Cross College, 1955

PhD: The Ohio State University, Columbus, Oh., 1962

MD: Georgetown University, Washington, DC, 1965

Resident Staff

Erin C. Akar, MD

PGY-1

BS: University of California Santa Barbara, Santa Barbara, Ca., 2005

MD: Drexel University, Philadelphia, Pa., 2011

MA: University of California Santa Barbara, Santa Barbara, Ca., 2007

Catherine E. Beck, MD

PGY-4

BS: University of Wisconsin, Madison, Wi., 2003

MD: The Ohio State University, Columbus, Oh., 2008

Ellen Carraro, MD

PGY-3

BA: Northwestern University, Evanston, Il., 2005

MD: Ohio State University, Columbus, Oh., 2009

Amy L. Collins, MD, MS

PGY-3

BS: Florida Atlantic University, Boca Raton, Fl., 2001

MD: University of South Florida, Tampa, Fl., 2007

MS: The Ohio State University, Columbus, Oh., 2010

Mary E. Dillhoff, MD, MS

PGY-5

BS: University of Cincinnati, Cincinnati, Oh., 2001

MD: University of Cincinnati, Cincinnati, Oh., 2005

MS: The Ohio State University, Columbus, Oh., 2009

Joseph M. Drosdeck, MD

PGY-2

BA: University of Wisconsin-Milwaukee, Milwaukee, Wi., 2004**MD:** University of Wisconsin, Madison, Wi., 2010**Kenechi K. Ebede, MD**

PGY-2

BS: Rutgers University, New Brunswick, NJ, 2002**MD:** University of Pennsylvania, Philadelphia, Pa., 2009**David C. Evans, MD**

PGY-5

BS: Duke University, Durham, NC, 2002**MD:** Duke University, Durham, NC, 2006**Zachary N. Gordon, MD**

PGY-1

BS: Brown University, Providence, R.I., 2007**MD:** Brown University, Providence, R.I., 2011**Kristan D. Guenterberg, MD, MS**

PGY-5

BS: Walla Walla College, College Place, Wa., 2001**MD:** Loma Linda University, Loma Linda, Ca., 2005**MS:** The Ohio State University, Columbus, Oh., 2009**Lisa M. Haubert, MD, MS**

PGY-5

BS: University of Akron, Akron, Oh., 2002**MD:** The Ohio State University, Columbus, Oh., 2006**MS:** The Ohio State University, Columbus, Oh., 2010**Jon C. Henry, MD, MS**

Master of Medical Science Program

BS: The Ohio State University, Columbus, Oh., 2004**MD:** The Ohio State University, Columbus, Oh., 2008**Justin T. Huntington, MD**

PGY-2

BA: Miami University, Oxford, Oh., 2006**MD:** The Ohio State University, Columbus, Oh., 2010

Iyore A. James, MD, MALD, MS

PGY-4

BS: University of Massachusetts, Worcester, Ma., 2001**MD:** Tufts University, Boston, Ma., 2006**MALD:** Tufts University, Boston, Ma., 2006**MS:** The Ohio State University, Columbus, Oh., 2010**Kara M. Keplinger, MD**

PGY-1

BA: The Ohio State University, Columbus, Oh., 2007**MD:** The Ohio State University, Columbus, Oh., 2011**Michelle Y. Kincaid, MD, MS**

PGY-4

BA: Johns Hopkins University, Baltimore, Md., 2002**MD:** University of Maryland, Baltimore, Md., 2007**MS:** The Ohio State University, Columbus, Oh., 2010**Maureen E. Kuhrt, MD, MS**

PGY-4

BA: Cornell University, Ithaca, NY, 2003**MD:** University of Connecticut, Farmington, Ct., 2007**MS:** The Ohio State University, Columbus, Oh., 2010**Nicholas V. Latchana, MD**

PGY-2

BS: University of Western Ontario, London, Ontario, Canada, 2006**MD:** Albany Medical College, Albany, NY, 2010**Eric A. Luedke, MD, MS**

Master of Medical Science Program

BS: Marquette University, Milwaukee, Wi., 2003**MD:** Medical College of Wisconsin, Milwaukee, Wi., 2007**Justin B. Mahida, MD, MBA**

PGY-1

BS: Emory University, Atlanta, Ga., 2005**MD:** The Ohio State University, Columbus, Oh., 2011**MBA:** The Ohio State University, Columbus, Oh., 2011**Lavina S. Malhotra, MD**

PGY-1

MD: Russian People's Friendship University, Moscow, Russian Federation, 2006

Sara A. Mansfield, MD

PGY-1

BS: Ohio University, Athens, Oh., 2007**MD:** University of Cincinnati, Cincinnati, Oh., 2011**Sara E. Martin del Campo, MD**

Master of Medical Science Program

BS: Indiana University, Bloomington, In., 2005**MD:** University of Iowa, Iowa City, Ia., 2009**Mika A. B. Matthews, MD**

Master of Medical Science Program

BS: University of Michigan, Ann Arbor, Mi., 2005**MD:** Morehouse School of Medicine, Atlanta, Ga., 2009**Peter N. Nau, MD, MS**

PGY-5

BS: St. Olaf College, Northfield, Mn., 2001**MD:** University of Iowa, Iowa City, Ia., 2006**MS:** The Ohio State University, Columbus, Oh., 2010**Sylvester N. Osayi, MD**

PGY-1

BS: University of the District of Columbia, Washington, DC, 2007**MD:** Medical College of Wisconsin, Milwaukee, Wi., 2011**Laura A. Peterson, MD, MS**

PGY-3

BS: University of Wisconsin, Madison, Wi., 2004**MD:** University of Wisconsin, Madison, Wi., 2008**MS:** The Ohio State University, Columbus, Oh., 2011**Firas G. Petros, MD**

PGY-1

MD: Al-Nahrain University, Iraq, 2000**Thomas A. Pham, MD, MS**

PGY-3

BS: The Ohio State University, Columbus, Oh., 2003**MD:** University of Cincinnati, Cincinnati, Oh., 2007**MS:** The Ohio State University, Columbus, Oh., 2011

Robert L. Plews, MD

PGY-2

BS: University of South Florida, Tampa, FL., 2006**MD:** University of South Florida, Tampa, FL., 2010**Ricardo O. Quarrie, MD, MS**

PGY-3

BS: Florida State University, Tallahassee, FL., 2003**MD:** The Ohio State University, Columbus, Oh., 2007**MS:** The Ohio State University, Columbus, Oh., 2011**Andrei Radulescu, MD, PhD**

PGY-2

MD: Universitatea de Medicinas si Farmacie Victor Babes, Timisoara, Romania, 2002**PhD:** Universitatea de Medicinas si Farmacie Victor Babes, Timisoara, Romania, 2005**Terrence M. Rager, MD, MS**

PGY-2

BS: Pennsylvania State University, University Park, Pa., 2002**MS:** Pennsylvania State University, Hershey, Pa., 2006**MD:** Pennsylvania State University, Hershey, Pa., 2010**Geoffrey J. Roelant, MD, MS**

PGY-4

BS: Michigan Technological University, Houghton, Mi., 1999**MS:** Michigan Technological University, Houghton, Mi., 2002**MD:** University of Maryland, College Park, Md., 2008**Latifa A. Sage Silski, MD****BA:** Case Western Reserve University, Cleveland, Oh., 2003**MD:** University of Michigan, Ann Arbor, Mi., 2011**Jennifer S. Schwartz, MD**

PGY-3

BS: Vanderbilt University, Nashville, Tn., 2005**MD:** University of New York at Syracuse College of Medicine, Syracuse, NY, 2009**Tyler C. Spata, MD**

Master of Medical Science Program

BA: University of Texas, Austin, Tx., 2003**MD:** University of Texas, Austin, Tx., 2008

Rachael C. Sullivan, MD

PGY-2

BS: University of Toledo, Toledo, Oh., 2006**MD:** The Ohio State University, Columbus, Oh., 2010**Alicia C. Thomas, MD, MS**

PGY-5

BS: High Point University, High Point, NC, 2002**MD:** University of North Carolina, Chapel Hill, NC, 2006**MS:** The Ohio State University, Columbus, Oh., 2010**Thomas A. VanBuren, MD**

PGY-1

BA: Northwestern University, Evanston, Il., 2006**MD:** Tulane University, New Orleans, La., 2011**Katie M. Wells, MD**

PGY-1

BA: University of Georgia, Athens, Ga., 2004**MD:** Mercer University, Macon, Ga., 2011**Mark R. Wendling, MD, MS**

Master of Medical Science Program

BS: Lawrence University, Appleton, Wi., 2004**MD:** Medical College of Wisconsin, Milwaukee, Wi., 2009**MS:** The Ohio State University, Columbus, Oh., 2012**Jonathan R. Wisler, MD, MS**

Master of Medical Science Program

BA: Miami University, Oxford, Oh., 2004**MD:** University of Cincinnati, Cincinnati, Oh., 2008**MS:** The Ohio State University, Columbus, Oh., 2012**Jason M. Woodbury, MD**

PGY-1

BS: University of Utah, Salt Lake City, Utah, 2005**MD:** The Ohio State University, Columbus, Oh., 2011

Mission

The Division of General and Gastrointestinal Surgery is dedicated to the achievement of excellence in patient care, medical education and clinical training, and basic science and clinical research.

Research Programs

- Wound angiogenesis and healing
- Regenerative medicine
- Cardiac remodeling
- Vitamin E and neurodegeneration
- Clinical wound healing
- Cytomegalovirus infections and bacterial sepsis
- Gene therapy and the effects of early genetic changes in pancreatic cancer
- Minimally invasive surgical techniques

Accomplishments in Research

- Faculty members in the division published 123 scholarly articles, abstracts, and chapters.
- Formation of the Center for Regenerative Medicine and Cell Based Therapies by Dr. Chandan Sen.
- College of Engineering “Building Bridges” Excellence Awarded to Dr. Chandan Sen.
- American Heart Association grant, Beginning Grant-in-Aid (BGIA) awarded to Dr. Savita Khanna.

Active Research Grants

Hazey JW. Feasibility of diagnostic transluminal endoscopic peritoneoscopy for abdominal insufflation, adhesiolysis and trocar placement in patients who require laparoscopic access. NOSCART (Natural Orifice Surgery Consortium for Assessment and Research). August 2008 – present, \$41,250. Principal Investigator

Hazey JW. Endolumenal instrumentation-trocar study. Stryker Endoscopy. March 2007 – present, \$40,500. Principal Investigator.

Khanna S. Brain injury and repair. OSU College of Medicine Research Investment Fund (RIF). November 2010 – November 2011, \$100,000. Principal Investigator.

Narula VK, Hazey JW. Rebound hernia repair device trial. Minnesota Medical Development, Inc. June 2009 – December 2013, \$5,500.

Narula VK. LINX reflux management system. Torax Medical, Inc. December 2008 – December 2012, \$52,778. Co-Investigator.

Narula VK. Evaluation of postoperative pain following laparoscopic hernia repair: a prospective, randomized comparison to evaluate the incidence of postoperative pain associated with absorbable fixation Absorba. Covidien. \$11,250. Principal Investigator.

Roy S. Vitamin E neuroprotection: Novel molecular mechanisms. January 2008 – December 2011, \$1,050,000. Co-Investigator

Sen C. Vitamin E neuroprotection: Novel molecular mechanisms. January 2008 – December 2011, \$525,000. Principal Investigator.

Roy S, Gordillo GM, Parinandi NL, Sen CK. Mechanisms underlying impaired diabetic wound healing. National Institute of Diabetes and Digestive and Kidney Diseases, April 1, 2008 – January 31, 2012, \$255,000.

Sen C, Roy S. Mechanisms underlying impaired diabetic wound healing. April 2008 – January 2012, \$600,000.

Sen CK, Askwith CC, Parinandi NL, Roy S. Vitamin E neuroprotection: novel molecular mechanisms. National Institute of Neurological Disorders and Stroke, January 1, 2008 – December 31, 2011, \$236,250.

Sen C. The Ohio State University Center for Clinical and Translational Science. NIH/NCRR, July 2008 – June 2013,

Sen C. Tissue oxygenation and wound angiogenesis. NIH/NIGMS, August 2007 – May 2011, \$792,000.

Clinical Programs

- Comprehensive gastrointestinal surgery services
- Minimally invasive surgery
- Bariatric surgery
- Benign and malignant esophageal disorders
- Gastroesophageal reflux
- Hepatobiliary and pancreatic cancer
- Treatment of benign and malignant diseases of the colon and rectum
- Wound care

Accomplishments in Clinical Care

- Attending faculty in the division performed 15,651 surgical procedures and received 17,275 outpatient visits.

Clinical Statistics

OR Procedures	15,651
Outpatient Visits	17,275
Admissions	2,456
Patient Days	14,418
Average Length of Stay (Days)	5.69

Educational Programs

- Fully-accredited residency in general surgery
- One-year clinical assistant professorship in minimally invasive surgery
- One-year clinical assistant professorship in advanced therapeutic endoscopy

- Honors program in surgery for fourth-year medical students
- Four-week subinternship in general surgery
- Six-week clerkship in general surgery
- Master of medical science program

Accomplishments in Education

- Completion of the general surgery residency by Mary Dillhoff, MD, David Evans, MD, Kristan Guenterberg, MD, Lisa Haubert, MD, Peter Nau, MD, Alicia Thomas, MD.
- Completion of the clinical assistant professorship in minimally invasive surgery by Dr. Jeffrey Eakin and Dr. Brendan Marr.
- Completion of the clinical assistant professorship in advanced therapeutic endoscopic surgery by Dr. Kashif Zuberi.
- Faculty have trained over 293 surgeons, residents, students and allied healthcare professionals from throughout the United States and international community in educational programs offered through the Center for Minimally Invasive Surgery.

Publications

Banerjee A, Beck C, Narula VK, Linn J, Noria S, Zagol B, Mikami DJ. Laparoscopic ventral hernia repair: Does primary repair in addition to placement of mesh decrease recurrence? *Surg Endosc.* 2012; Vol. 26, no. 5: 1264-8.

Chan YC, **Roy S, Khanna S, Sen CK.** Downregulation of endothelial microRNA-200b supports cutaneous wound angiogenesis by desilencing GATA binding protein 2 and vascular endothelial growth factor receptor 2. *Arterioscler Thromb Vasc Biol.* 2012 Jun;32(6):1372-82.

Chan YC, **Banerjee J,** Choi SY, **Sen CK.** Mir-210: The master hypoxamir. *Microcirculation.* 2012;19:215-223

Deiuliis J, Shah Z, **Shah N, Needleman B, Mikami D, Narula V, Perry K, Hazey J,** Kampfrath T, Kollengode M, Sun Q, Satoskar AR, Lumeng C, **Moffatt-Bruce S,** Rajagopalan S. Visceral adipose inflammation in obesity is associated with critical alterations in regulatory cell numbers. *PLoS One.* 2011; Vol. 1, no. 6: 1-11.

Dickerson R, Deshpande B, Gnyawali U, Lynch D, Gordillo GM, Schuster D, Osei K, **Roy S**. Correction of Aberrant NADPH Oxidase Activity in Blood-Derived Mononuclear Cells from Type II Diabetes Mellitus Patients by a Naturally Fermented Papaya Preparation. *Antioxid Redox Signal*. 2012 Aug 1;17(3):485-91.

Enestvedt CK, Hosack L, Hoppo T, **Perry KA**, O'Rourke RW, Winn SR, Hunter JG, Jobe BA. Recombinant vascular endothelial growth factor(165) gene therapy improves anastomotic healing in an animal model of ischemic esophagogastronomy. *Dis Esophagus*. 2011 Sept 7. [Epub ahead of print]

Melvin WS, Renton D. Laparoscopic Ventral Hernia Repair. *World J Surg*. 2011 Jul;35(7):1496-9.

Melvin WS. Modern Treatment for Gastroesophageal Reflux Disease: Surgery vs Medication. *Arch Surg*. 2011 Sep;146(9):1093-4.

Memark VC, Anderson JB, Nau PN, Shah N, Needleman BJ, Mikami DJ, **Melvin WS, Hazey JW**. Transgastric endoscopic peritoneoscopy does not lead to increased risk of infectious complications. *Surg Endosc*. 2011 Jul;25(7):2186-91. [Epub 2011 Feb 7]

Nau P, Liu J, **Ellison EC, Hazey JW**, Henn M, **Muscarella P, Narula VK, Melvin WS**. Novel reconstruction of the extrahepatic biliary tree with a biosynthetic absorbable graft. *HPB*. 2011 Aug;13(8):573-578. [Epub 2011 Jun 27]

Park HA, Kubicki N, Gnyawali S, Chan YC, **Roy S, Khanna S, Sen CK**. Natural vitamin E α -tocotrienol protects against ischemic stroke by induction of multidrug resistance-associated protein 1. *Stroke*. 2011 Aug;42(8):2308-14. [Epub 2011 Jun 30]

Patel V, **Rink C**, Gordillo GM, **Khanna S**, Gnyawali U, **Roy S**, Shneker B, Ganesh K, Phillips G, More JL, Sarkar A, Kirkpatrick R, **Elkhammas EA**, Klatte E, Miller M, **Firstenberg MS**, Chiocca EA, Nesaretnam K, **Sen CK**. Oral tocotrienols are transported to human tissues and delay the progression of the model for end-stage liver disease score in patients. *J Nutr*. 2012 Mar;142(3):513-9.

Patel V, **Rink C, Khanna S, Sen CK**. Tocotrienols: the lesser known form of natural vitamin E. *Indian J Exp Biol*. 2011 Oct;49(10):732-8.

Rink C, Christoforidis G, **Khanna S, Peterson L**, Patel Y, Abduljalil A, Irfanoglu O, Machiraju R, Bergdall VK, **Sen CK**. Tocotrienol vitamin e protects against preclinical canine ischemic stroke by inducing arteriogenesis. *J Cereb Blood Flow Metab*. 2011;31:2218-2230

Rohlén J, Dong LF, Kluckova K, Zabalova R, Goodwin J, Tilly D, Stursa J, Pecinova A, Philimonenko A, Hozak P, **Banerjee J**, Ledvina M, **Sen CK**, Houstek J, Coster MJ, Neuzil J. Mitochondrially targeted alpha-tocopheryl succinate is antiangiogenic: Potential benefit against tumor angiogenesis but caution against wound healing. *Antioxid Redox Signal*. 2011;15:2923-2935

Roland JC, **Needleman BJ, Muscarella P, Cook CH, Narula VK, Mikami DJ**. Laparoscopic Roux-en-Y gastric bypass in patients with body mass index > 70 kg/m(2). *Surgery for Obesity & Related Diseases*. 2011;7(5):587-591.

Roy S, Dickerson R, **Khanna S**, Collard E, Gnyawali U, Gordillo GM, **Sen CK**. Particulate beta-glucan induces tnfr-alpha production in wound macrophages via a redox-sensitive nf-kappabeta-dependent pathway. *Wound Repair Regen*. 2011;19:411-419

Roy S, **Sen CK**. miRNA in wound inflammation and angiogenesis. *Microcirculation*. 2012 Apr;19(3):224-32.

Roy S, Driggs J, **Elgharably H**, Biswas S, Findley M, **Khanna S**, Gnyawali U, Bergdall VK, **Sen CK**. Platelet-rich fibrin matrix improves wound angiogenesis via inducing endothelial cell proliferation. *Wound Repair Regen*. 2011 Nov;19(6):753-66.

Sen CK. Rebound peer review: A viable recourse for aggrieved authors? *Antioxid Redox Signal*. 2012;16:293-296

Sen CK. Micrnas as new maestro conducting the expanding symphony orchestra of regenerative and reparative medicine. *Physiol Genomics*. 2011;43:517-520

Shah NR, **Mikami DJ**, **Cook CH**, **Manilchuk A**, Hodges C, **Memark VR**, **Volckmann ET**, **Hall CR**, **Steinberg S**, **Needleman B**, **Hazey JW**, **Melvin WS**, **Narula VK**. A comparison of outcomes between open and laparoscopic surgical repair of recurrent inguinal hernias. *Surg Endosc*. 2011 Jul;25(7):2330-7.

Tamama K, Kawasaki H, Kerpedjieva SS, Guan J, Ganju RK, **Sen CK**. Differential roles of hypoxia inducible factor subunits in multipotential stromal cells under hypoxic condition. *J Cell Biochem*. 2011;112:804-817

Tempero MA, Arnoletti JP, Behrman SW, Ben-Josef E, Benson AB, Casper ES, Cohen SJ, Czito B, Ellenhorn JD, Hawkins WG, Herman J, Hoffman JP, Ko A, Komanduri S, Koong A, Ma WW, Malafa MP, Merchant NB, Mulvihill SJ, **Muscarella P**, Nakakura EK, Obando J, Pitman MB, Sasson AR, Tally A, Thayer SP, Whiting S, Wolff RA, Wolpin BM, Freedman-Cass DA, Shead DA. Pancreatic Adenocarcinoma, Version 2.2012: Featured Updates to the NCCN Guidelines. *J Natl Compr Canc Netw*. 2012 Jun 1;10(6):703-713.

Xu RX, Allen DW, Huang J, Gnyawali S, Melvin J, **Elgharably H**, Gordillo G, Huang K, Bergdall V, Litorja M, Rice JP, Hwang J, **Sen CK**. Developing digital tissue phantoms for hyperspectral imaging of ischemic wounds. *Biomed Opt Express*. 2012;3:1433-1445

Xue C, Chou CS, Kao CY, **Sen CK**, Friedman A. Propagation of cutaneous thermal injury: A mathematical model. *Wound Repair Regen*. 2012;20:114-122

Yang F, Zhang X, Maisseyu A, Mihai G, Yasmeen R, Disilvestro D, Maurya SK, Periasamy M, Bergdall KV, Gregg D, **Sen CK**, **Roy S**, Lee LJ, Rajagopalan S, Ziouzenkova O. The prolonged survival of fibroblasts with forced lipid catabolism in visceral fat following encapsulation in alginate-poly-l-lysine. *Biomaterials*. 2012 Aug;33(22):5638-49.

Zagol B, **Mikami DJ**. Advances in transoral fundoplication for oesophageal reflux.” *Digestive and Liver Disease*. 2011 May;43(5):361-4. [Epub 2011 Mar 5]

Books

Sen CK. (Ed). *Advances in Wound Care*. Yearbook of the Wound Healing Society, Mary Ann Liebert Inc., Volume 2, 2011

Book Chapters

Beck C, Melvin WS. Minimally Invasive Approaches to the Pancreas. In *Evidence Based Approach to Minimally Invasive Surgery*, eds. Murayama, Chand, Nagle, Mikami, Kothari, 2011.

Demyttenaere S, **Melvin WS.** Laparoscopic Robotic Distal Pancreatectomy and Splenectomy. In *American College of Surgeons Atlas of Surgery. Pancreas Surgery Volume*, Eds Asbun HJ, Fuchshuber PR., American College of Surgeons, p 201-207, 2011.

Eakin J, Melvin WS. Endoluminal Treatment of Gastroesophageal Reflux Disease. *Principles of Flexible Endoscopy* Ed. Marks, J, Dunkin B. Springer, In Press, 2012.

Fischer, J, **Muscarella P**, Goldblatt MI, **Melvin WS.** Prevention and Management of Complications in Minimally Invasive Esophageal Surgery. In *Prevention and Management of Complications in Laparoendoscopic Surgery*. 3rd ed. Editors, Wetter PA, Kavic MS, Levinson CJ and Kelley W. 2011.

Hazey, JW. *Teaching and Learning Advanced Flexible Endoscopy, Mastery of Endoscopic and Laparoscopic Surgery*, 4th ed. Swanstrom and Soper. In Press

Hazey JW, Melvin WS. Common Endoscopic Complication: Recognition and Management. In *The SAGES Manual of Quality Outcomes and Patient Safety*. Eds. Tichanzky DS, Morton J, Jones DB. Springer, 207-22. 2011.

Melvin WS. Endoluminal Treatment of Reflux. In *Master Techniques in General Surgery: Foregut Surgery*, eds. Nussbaum M, MD and Luketich J, MD

Melvin WS. Common Bile Duct Exploration. In *Up to Date*, <http://www.uptodate.com/contents/common-bile-duct-exploration> ed. Ashley S. 2011.

Murayama K, Chand B, **Mikami D**, Kothari S, Nagel A, ed(s). *Evidence Based Minimally Invasive Surgery*.: Cine-Med 2012

Nau P, Hazey JW. Infection Control in NOTES. In *Natural Orifice Translumenal Endoscopic Surgery (NOTES)*, ed. Kalloo et al., In Press.

Narula VK, Hazey JW. Endoscopic considerations in morbid obesity. In *Principles of Flexible Endoscopy*, ed Marks and Dunkin. In Press.

Perry KA, Melvin WS. Endoscopic Antireflux Repair—EsophyX. In *Master Techniques in General Surgery: Foregut Surgery*, ed. Luketich. Lippincott, William&Wilkins, Philadelphia, 2011

Renton DR, Melvin WS. Laparoscopic Cholecystectomy with and without Common Bile Duct Exploration. In *Master Techniques in General Surgery: Hepatobiliary and Pancreatic Surgery* ed. Drs. Lillemoe and Jarnagin. Lipincott, William&Wilkins, Philadelphia. 2011

Sen CK, Khanna S, Azad A, Roy S. Hyperoxia inducible remodeling of the reoxygenated heart: p21 and miR-21. In *The Cardiac Fibroblast*, ed. Turner, NA. ISBN: 978-81-308-0435-4. pp111-126

International Presentations

Melvin WS. The future of Minimally Invasive Colorectal Surgery, Laparoscopic Colorectal Surgery: The Essentials. XIII World Congress of Endoscopic Surgeons. Puerto Valarta, Mexico, April 26, 2012

Melvin WS. Laparoscopic Cholecystectomy, What is the current status of endoscopic antireflux procedures? Do these have a place in our armamentarium. XIII World Congress of Endoscopic Surgeons. Puerto Valarta, Mexico, April 27, 2012

Melvin WS. Difficult situations suturing and stapling, NOTES and the infection issue. 20th International Congress of the European Association for Endoscopic Surgery. Brussels, Belgium, June 21-23, 2012

Roy S. Invited lecture, FEPS 2011. Istanbul, Turkey, September 3-7, 2011

Roy S. Invited lecture, Redox Biology and Micronutrients: from signaling to translation and back. SFRR-Europe 2011. Istanbul, Turkey, September 7-10, 2011

Roy S. Invited lecture, Joint Meeting of the ESM and GfMVB. Munich, Germany, Oct 13-16, 2011

Roy S. Invited lecture, 12th Annual Wound Healing: Science and Industry. Puerto Rico, December 8-11, 2011

Sen CK. Plenary Lecture, Palm International Nutra-Cosmeceutical Conference (PINC), Kuala Lumpur, Malaysia, May 19, 2011

Sen CK. Plenary Lecture, International Palm Oil Congress (PIPOC), Kuala Lumpur, Malaysia, November 15-17, 2011

Sen CK. Evening Forum with the Philippines Medical Fraternity in conjunction with Malaysia- Philippines Palm Oil Trade Fair and Seminar, Manila, Philippines, April 14-18, 2012

Sen CK. University of Finland's Mitochondria and Oxidative Stress in the Nervous System ROS Course, Kuopio, Finland, June 11-15, 2012

National Presentations

Harzman A. A Lunchtime Showcase: Diffusing Innovative Education Technology at an Academic Medical Center. AAMC. Denver, Co., November 2011

Hazey JW. Moderator, Scientific Session. Hernia. SAGES Annual Meeting. San Diego, Ca., March 2012

Hazey JW. Moderator, Scientific Session: Oops, Now what? SAGES Annual Meeting. San Diego, Ca., March 2012

Hazey JW. Flexible Endoscopy Post-Graduate Course Faculty. ACS Annual Meeting, San Francisco, Ca., October 23, 2011

Melvin WS. SAGES Basic Endoscopy and Laparoscopic Surgery, Cincinnati, Oh., August 11-12, 2011

Melvin WS. Grand Rounds: Modern Treatment of Gastroesophageal Reflux Disease. University of Rochester, Department of Surgery. Rochester, NY, October 5, 2011

Melvin WS. Gastroesophageal Reflux Disease GERD. American College of Surgeons Clinical Congress San Francisco, Ca., October 23, 2011

Melvin WS. The Yeses and No's of Transgastric Surgery. 5th Annual UCSD Hands-On Endoluminal, Single Site & NOTES Surgery Symposium, San Diego, Ca., December 2, 2011

Melvin WS. Surgical Management of Esophageal Disease. Controversies in Surgery. Albert Einstein University Montefiore Medical Center. New York City, NY, December 16, 2011.

Melvin WS. Benign and malignant diseases of the esophagus. 11th Annual Surgery of the Foregut Symposium Cleveland Clinic Digestive Disease Institute. Coral Gables, FL., February 18, 2012

Melvin WS. Endoluminal Approach to Reflux Disease Center for Minimally Invasive: The Ohio State University Surgery. Marco Island, FL., February 25, 2012

Melvin WS. Unexpected Findings at Surgery: How to Manage "Surprise" Findings. Central Surgical 2012 Annual Meeting. Madison, Wi., March 1, 2012

Melvin WS. Moderator Session SS12: Plenary , Do you know more than your Fellow, Robotic Surgery Hope or Hype. SAGES 2012. San Diego, Ca., March 7-10, 2011

Melvin WS. GERD and Paraesophageal Hernia Dilemmas, Surgery on Diaphragmatic Ruptures. 5th International Hernia Congress. New York, NY, March 29-30, 2012

Melvin WS. General Surgery Grand Rounds Modern Treatment Modalities for Gastroesophageal Reflux Disease. Cleveland Clinic. Cleveland, Oh., April 7, 2012

Melvin WS. Digestive Disease Week SSAT Current Concepts and Controversies in Foregut Motility San Diego, Ca., May 22, 2012

Mikami D. Laparoscopic Hernia Repair and Complications. Michigan State University, Surgery. East Lansing, Mi., November 2011

Mikami D. Advanced Laparoscopic Hernia Repair and Complications. Michigan State University, Surgery. East Lansing, Mi., November 2011

Mikami D. Endoscopic Bariatric Surgery. American Society For Metabolic and Bariatric Surgeons, Orlando, FL., June 2011

Mikami D. Sclerotherapy and Stomal Reduction. American Society For Metabolic and Bariatric Surgeons, Orlando, FL., June 2011

Roy S. Oral presentation, AHA Scientific Sessions. Orlando, FL., November 12-16, 2011

Schlanger RE. Heal Ohio 2010: Showcasing Wound Care Collaborations, Diabetic Ulcers and HBO. Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Akron General Hospital, Akron, Oh., October 20, 2011.

Schlanger RE. Operating an Effective and Efficient Hyperbaric Program. Union Hospital and Altman Hospital, Dover, Oh., May 17, 2012.

Sen CK. Invited Speaker, Southwest Technologies “30 Years of Treating the World Well” Meeting, Kansas City, Mo., June 10, 2011

Sen CK. Invited Speaker, Inaugural American College of Wound Healing and Tissue Repair Conference, University of Chicago College of Medicine, Chicago, IL., August 4, 2011

Sen CK. Invited Speaker, Heal Ohio Collaborative, Heal Ohio 2011: Showcasing Global Emerging Concepts in Wound Healing, Rootstown, Oh., October 20, 2011

Sen CK. Invited Speaker, Pfizer Consumer Healthcare (Nutrition), Madison, NJ, December 7, 2011

Sen CK. Visiting Professorship, Brown University, Providence, RI, January 5-6, 2012

Sen CK. Collaborative Research Forum, Sanibel Island, FL., March 15-17, 2012

Sen CK. SAWC/WHs Annual Conference, Atlanta, Ga., April 19-22, 2012

Local Presentations

Harzman A, Warrier R, Presenter. A Transrectal Natural Orifice Surgical Curriculum Developed Via Cognitive Task Analysis. Columbus Surgical Society, Columbus, Oh., March 2012

Mikami D. Advanced Endoscopy for Bariatric & General Surgeons. The Ohio State University, Columbus, Oh., September 2011

Mikami D. General Surgery Resident Skills Lab - Basic Laparoscopic Skills Animate Lab for PGY2 Residents. The Ohio State University, Columbus, Oh., September 2011

Mikami D. General Surgery Resident Skills Lab - Upper Endoscopy for PGY2 Residents. The Ohio State University, Columbus, Oh., September 2011

Mikami D. New Approaches to the Complex Hernia: Inguinal & Abdominal Wall Reconstruction. The Ohio State University, Columbus, Oh., September 2011

Mikami D. SAGES Flexible Endoscopy Course for MIS Fellows. The Methodist Hospital System, Columbus, Oh., September 2011

Mikami D. Endoscopy for Bariatric & General Surgeons. The Ohio State University, Columbus, Oh., September 2011

Mikami D. General Surgery Resident Skills Lab - Basic Laparoscopic Skills Animate Lab for PGY2 Residents. The Ohio State University, Columbus, Oh., September 2011

Mikami D. General Surgery Resident Skills Lab - Upper Endoscopy for PGY2 Residents. The Ohio State University, Columbus, Oh., September 2011

Mikami D. New Approaches to the Complex Hernia: Inguinal & Abdominal Wall Reconstruction. The Ohio State University, Columbus, Oh., September 2011

Mikami D. SAGES Flexible Endoscopy Course for MIS Fellows. The Methodist Hospital System, Columbus, Oh., September 2011

Mikami D. General Surgery Resident Skills Lab - Basic Laparoscopic Skills Lab for PGY2 Residents. The Ohio State University, Columbus, Oh., August 2011

Mikami D. General Surgery Resident Skills Lab - Fundamentals of Laparoscopic Surgery (FLS) for PGY2 Residents. The Ohio State University, Columbus, Oh., August 2011

Mikami D. General Surgery Resident Skills Lab - Fundamentals of Laparoscopic Surgery (FLS) for PGY3-4 Residents. The Ohio State University, Columbus, Oh., August 2011

Mikami D. Laparoscopic Hernia Repair for General Surgery Residents. The Ohio State University, Columbus, Oh., August 2011

Mikami D. General Surgery Resident Skills Lab - Basic Laparoscopic Skills Lab for PGY2 Residents. The Ohio State University, Columbus, Oh., August 2011

Mikami D. General Surgery Resident Skills Lab - Fundamentals of Laparoscopic Surgery (FLS) for PGY2 Residents. The Ohio State University, Columbus, Oh., August 2011

Mikami D. General Surgery Resident Skills Lab - Fundamentals of Laparoscopic Surgery (FLS) for PGY3-4 Residents. The Ohio State University, Columbus, Oh., August 2011

Mikami D. Laparoscopic Hernia Repair for General Surgery Residents. The Ohio State University, Columbus, Oh., August 2011

Mikami D. Laparoscopic Honors Lab for MED IV Students. The Ohio State University, Columbus, Oh., February 2012

Narula VK. Advances in Minimally Invasive Surgery Feb 2012. The Ohio State University, Columbus, Oh., February 2012

Narula VK. Laparoscopic Honors Lab for MED IV Students. The Ohio State University, Columbus, Oh., February 2012

Narula VK. Laparoscopic Hernia Repair and Complications. Michigan State University, Columbus, Oh., November 2011

Narula VK. Advanced Endoscopy for Bariatric & General Surgeons. The Ohio State University, Columbus, Oh., September 2011

Narula VK. General Surgery Resident Skills Lab - Basic Laparoscopic Skills Animate Lab for PGY2 Residents. The Ohio State University, Columbus, Oh., September 2011

Narula VK. General Surgery Resident Skills Lab - Upper Endoscopy for PGY2 Residents. The Ohio State University, Columbus, Oh., September 2011

Narula VK. New Approaches to the Complex Hernia: Inguinal & Abdominal Wall Reconstruction. The Ohio State University, Columbus, Oh., September 2011

Narula VK. SAGES Flexible Endoscopy Course for MIS Fellows. The Methodist Hospital System, Columbus, Oh., September 2011

Narula VK. Educational Course) Lecturer and Hands-on Laboratory Instructor General Surgery Resident Skills Lab - Basic Laparoscopic Skills Lab for PGY2 Residents. The Ohio State University, Columbus, Oh., August 2011

Narula VK. General Surgery Resident Skills Lab - Fundamentals of Laparoscopic Surgery (FLS) for PGY2 Residents. The Ohio State University, Columbus, Oh., August 2011

Narula VK. General Surgery Resident Skills Lab - Fundamentals of Laparoscopic Surgery (FLS) for PGY3-4 Residents. The Ohio State University, Columbus, Oh., August 2011

Narula VK. Laparoscopic Hernia Repair for General Surgery Residents. The Ohio State University, Columbus, Oh., August 2011

Division of Pediatric Surgery



Pediatric Surgery



Gail E. Besner, MD
Chief, Division of Pediatric Surgery

The Division of Pediatric Surgery conducts its clinical, educational, research, and academic programs at Nationwide Children's Hospital (NCH), which recently opened its doors to its new 12-story, 750,000-square foot facility. The new Children's Hospital is the second largest children's hospital in the country, with an impressive total of 552 beds. The hospital has close to 1 million patient visits each year. This year, Nationwide Children's Hospital ranked #8 on the Honor Roll of the U.S. News & World Report listing of the best Children's Hospitals in the United States. In addition, Nationwide Children's Hospital ranks among the Top 10 pediatric research institutes in the country as measured by National Institutes of Health funding, and has three research buildings dedicated to pediatric research on its campus. The pediatric surgery service is one of the busiest services of its kind across the United States. Nationwide Children's Hospital is one of the only hospitals in the United States that is an American College of Surgeons designated Level I pediatric trauma center, an American Burn Association verified pediatric burn center, and a Commission on Accreditation of Rehabilitation Facilities (CARF) approved pediatric rehabilitation center.

The faculty members in the division include 13 board-certified pediatric surgeons, six of whom are also certified in surgical critical care, and one hospitalist, who is board-certified in general surgery and specializes in burn and trauma care. In addition to providing general pediatric surgical care, the division provides world-leading expertise in multiple focused areas of excellence including pediatric burn care, trauma care, minimally invasive surgery, inflammatory bowel diseases, adolescent bariatric surgery, gastrointestinal motility disorders, chest wall deformities, surgical oncology, and surgical endocrinology.

The Pediatric Surgical Basic Science Research Laboratory, directed by Dr. Gail Besner and Dr. David Brigstock, is located in The Research Institute at Nationwide Children's Hospital and is supported by five NIH grants that fund basic science and translational research in growth factor biology. Dr. Besner

is a member of the Center for Perinatal Research and her laboratory focuses on heparin-binding EGF-like growth factor (HB-EGF) and stem cell therapy for protection of the intestines and the enteric nervous system from injury. Dr. Brigstock is a member of the Center for Clinical and Translational Research and his team is examining the role of connective tissue growth factor (CTGF) in driving inflammatory responses and fibrotic pathways following chronic injury or disease in the pancreas and liver.

The Center for Surgical Outcomes Research, directed by Dr. Katherine Deans and Dr. Peter Minneci, is a comprehensive surgical outcomes research program which employs a wide range of methodologies in order to determine optimal interventions for the management of surgical diseases and the minimization of post-operative complications. Dr. Deans and Dr. Minneci are members of the Center for Innovation in Pediatric Practice at the Research Institute at Nationwide Children's Hospital. Initial areas of focus include management and interventions for non-accidental trauma, quality improvement projects for pediatric surgical procedures, and comparative effectiveness studies of surgical interventions for congenital anomalies.

The Adolescent Bariatric Surgery Program, in collaboration with the Nationwide Children's Hospital Center for Healthy Weight and Nutrition, continues at a busy pace. Under the direction of Dr. Michalsky, 21 adolescents underwent bariatric procedures in the past year. The program participates in the Teen-LABS (Longitudinal Assessment of Bariatric Surgery) study, a multi-center NIH-funded clinical study consortium designed to investigate safety, efficacy, and longitudinal outcomes among severely obese adolescents who have been treated with bariatric procedures. Nationwide Children's Hospital hosted a national conference on childhood and adolescent obesity in March 2012. This featured a keynote address by Dr. David Kessler, former director of the Food and Drug Administration (FDA).

The Level 1 pediatric trauma program is one of the busiest in the United States and cares for over 1200 traumatically injured children every year. It is one of the first trauma centers in the United States to use the electronic medical record to document trauma resuscitations. The trauma team is using a new state-of-the-art trauma center in the new hospital.

The American Burn Association (ABA) verified burn program at Nationwide Children's Hospital cares for over 150 thermally injured children every year, and recently obtained re-verification in its fourth consecutive verification visit from the ABA. The Burn Center is now relocated in the new Children's Hospital, and is enjoying the brand new facilities it occupies.

Dr. Jennifer Aldrink is the director of Surgical Oncology at Nationwide Children's Hospital, and runs the only combined pediatric surgical oncology clinic in Ohio. She has a special interest in thyroid cancer and melanoma, and is the principle investigator for a study examining the effect of imaging radiation on thyroid disease in children. She is also developing a multidisciplinary pediatric thyroid center at Nationwide Children's Hospital. She serves as the associate surgical director of the Neonatal Intensive Care Unit and has developed a clinical pathway for gastroschisis patients that resulted in significant improvement in their care. She is the principle investigator for a prospective randomized trial investigating the use of ketorolac in surgical neonates, scheduled to begin July 1, 2012.

Dr. Gail Besner is Chief of Pediatric Surgery at Nationwide Children's Hospital, Director of the Pediatric Surgery Residency Training Program, Associate Director of the Nationwide Children's Hospital Burn Program, and the H. William Clatworthy Professor of Pediatric Surgery. Dr. Besner was the 2012 recipient of the Denis R. King Pediatric Surgery Teacher of the Year Award. Her research on protection of the intestines from injury is conducted in the Center for Perinatal Research at the Research Institute at Nationwide Children's Hospital, and has had continuous support from the National Institutes of Health for the past 20 years. Dr. Besner presented her research as an invited guest speaker at the 52nd Annual Meeting of the European Society for Pediatric Research in New Castle, England, and at the American Academy of Pediatrics Perinatal Section's 79th Perinatal & Developmental Medicine Symposium. She was also invited to present her research as the Patricia C. Moynihan Women in Academic Surgery Visiting Professor at East Tennessee State University. Trainees from Dr. Besner's laboratory presented their research at the annual meetings of the American Pediatric Surgical Association, the Surgical Section of the American Academy of Pediatrics, the Society of Critical Care medicine, the Academic Surgical Congress, and the American Burn Association. Many publications have resulted from this year's work. In addition, Dr. Iyore James received the 16th Annual Department of Surgery Research Conference Award from the Ohio State University. This year Dr. Besner was appointed as the Vice-Chair of the American College of Surgeons Surgical Research Committee, she was elected as a member-at-large of the American Pediatric Surgical Association Foundation, and she was appointed as the Chair of the American Academy of Pediatrics Liason and Advocacy Committee.

Dr. David Brigstock is a Principal Investigator in the Center for Clinical and Translational Research at the Research Institute at Nationwide Children's Hospital where he is investigating the role of connective tissue growth factor (CTGF) in driving fibrosis after chronic injury in the liver and pancreas, especially in response to ethanol. Dr. Brigstock's work was presented at the Annual Meeting of the American Society for Cell Biology in December 2010, the Basic Science Plenary Session of the Academic Surgical Congress in February 2011, and Digestive Disease Week in May 2011. He continues to serve as the U.S. Editor of The Journal of Endocrinology and is a member of the Scientific Advisory Board of the International CCN Society and the Finance Committee of the American Society for the Study of Liver Diseases.

Dr. Katherine Deans is the Co-Director of the Center for Surgical Outcomes Research, Principle Investigator for the Center for Innovation in Pediatric Practice, Research Director for the Division of Child and Family Advocacy at Nationwide Children's Hospital and an Assistant Professor of Surgery at The Ohio State University. Her clinical interests include congenital anomalies, minimally invasive surgery in neonates and injury prevention.

Dr. Karen Diefenbach is the Director of Minimally Invasive Surgery at Nationwide Children's Hospital. She has a special interest in minimally invasive surgical correction of congenital anomalies such as intestinal atresias, tracheoesophageal anomalies, diaphragmatic hernias, and pulmonary malformations. She is also the Associate Director of Surgical Education at Nationwide Children's Hospital. She has developed Neonatal Minimally Invasive Surgery Trainers to assist pediatric surgeons in developing their minimally invasive surgery skills. These trainers have been incorporated in training courses here in the U.S. and internationally to further advance the surgical care of all children.

Dr. Renata Fabia continues to serve as Director of the Burn Program at Nationwide Children's Hospital, and led the program in its recent successful re-verification process from the American Burn Association. Under the leadership of Dr. Fabia, numerous strengths of the program were highlighted by the site reviewers. This year Dr. Fabia actively participated in the Regional Burn, Surgery & Mass Fatality Management Functional Exercise conducted at Nationwide Children Hospital. Dr. Fabia has expanded the nurse practitioners burn clinic at Nationwide Children's Hospital and is pursuing new sedation protocols for burn dressing changes. Dr. Fabia continues to provide care to the majority of trauma patients and also performs the majority of surgeries for dialysis access for children with end-stage renal disease.

Dr. Jonathan Groner is the medical director of the Level I Pediatric Trauma Center at Nationwide Children's Hospital, and the Surgical Operations Officer of the hospital. He was an invited speaker at the 19th Annual Trauma Symposium at Memorial Healthcare System and University of Miami Miller School of Medicine. Dr. Groner is the first elected secretary of the Pediatric Trauma Society, an international organization of health care providers who care for injured children. He is also a board member of the Central Ohio Trauma System and a member of the COTS clinical committee. Dr Groner is a member of the OSU Department of Surgery's "Talent Management and Leadership Development Academy" class of 2012. His research focuses on trauma systems, and he is the site PI for the PE-GASUS study, which evaluates treatment and outcomes for children with severe traumatic brain injury.

Dr. Brian Kenney continues as director of the Nationwide Children's Hospital fellowship in pediatric surgical critical care. In addition, he serves as the Surgical Director for Quality Improvement at Nationwide Children's Hospital, and is the local Surgeon Champion for the Pediatric National Surgical Quality Improvement Project (NSQIP). He has recently been named chairperson of the Ad Hoc committee for Surgical Critical Care for the American Pediatric Surgical Association (APSA).

Dr. Denis King continues as medical director of Nutrition Support Services. In recognition of his outstanding service as a surgical educator, he has received multiple awards from the OSU College of Medicine and Nationwide Children's Hospital: (1) the Lifetime Achievement Award for distinction throughout his career in the education of medical students and residents in surgery; (2) the "Excellence in Teaching Award" from the Department of Surgery; and (3) the Nationwide Children's Hospital Department of Pediatric Surgery Teacher of the Year Award (received on several occasions).

Dr. Marc Michalsky is the surgical director of the Center for Healthy Weight and Nutrition at Nationwide Children's Hospital. Under his leadership the Adolescent Bariatric Surgery Program has become nationally recognized for its clinical excellence and participation in NIH-funded outcomes research. This year Dr. Michalsky continues his tenure as chairman of the Pediatric Bariatric Committee at ASMBS (American Society for Metabolic and Bariatric Surgery) and was recently appointed to the society's newly formed committee on Metabolic and Bariatric Surgery Accreditation and Quality Improvement. As a member of this committee, a collaborative effort between the ASMBS and the ACS (American College of Surgeons), Dr. Michalsky will assist in the development of updated accreditation guidelines for the combined ASMBS-ACS program, and will provide specific expertise on the development of adolescent-specific guidelines for centers providing bariatric care to severely obese

teens. Dr. Michalsky was also appointed to the American Academy of Pediatrics Surgical Section Liaison and Advocacy Committee to represent the Bariatric Surgery community to the AAP Section on Obesity.

Dr. Peter Minneci is the Co-Director of the Center for Surgical Outcomes Research, Principle Investigator for the Center for Innovation in Pediatric Practice, Director of Surgical ECMO at Nationwide Children's Hospital, and Assistant Professor of Surgery at The Ohio State University. His clinical interests include congenital anomalies, minimally invasive surgery in neonates and injury prevention.

Dr. R. Lawrence Moss serves as Surgeon-in-Chief of Nationwide Children's Hospital and is the E. Thomas Boles Professor of Surgery and Pediatrics. He is overseeing a growth plan for all nine surgical specialties at NCH that includes recruitment of new faculty, development of innovative research programs, and creation of multiple new centers of excellence. His personal research interests include necrotizing enterocolitis (NEC) and surgical outcomes assessment. He currently leads a multi-center consortium investigating biologic predictors of outcomes and novel therapies for NEC. This consortium has received funding from the NIH, the FDA, and the pharmaceutical industry. Dr. Moss has published over 150 articles in the peer reviewed literature. He has held numerous leadership positions in surgical societies nationally. He has held continuous research funding for 15 years and has been instrumental in the development of the Pediatric National Surgical Quality Improvement Program (NSQIP).

Dr. Benedict Nwomeh serves as the Director of Surgical Education and Associate Director for the Pediatric Surgery Training Program. He continues as the Surgical Director of the Center for Pediatric and Adolescent Inflammatory Bowel Disease at NCH. This year he was appointed Chair of the Education Committee of the Surgical Section of the American Academy of Pediatrics, Chair of the International Committee for the Pediatric Trauma Society (PTS), and Chair of the Education and Training Committee for the Global Pediatric Surgery Network (GPSN). He was named the representative of the Association of Academic Surgery (AAS) to the AAMC. He is active in global surgery education, and co-edited the book *Pediatric Surgery: A Comprehensive Textbook for Africa* (2011). Dr. Nwomeh helped to develop global programs for several surgical societies, including the Association of Academic Surgery, the Pediatric Trauma Society, and the Society of University Surgeons. Recently, the World Health Organization (WHO) Global Initiative on Emergency and Essential Surgical Care (GIEESC) named him Chair of its Surgical Missions and Partnerships Coordinating Committee. Dr. Nwomeh was recently President of the Humera Surgical Society, the alumni society of the Virginia Commonwealth University surgery residency program.

Dr. Steven Teich remains Surgical Director of the Neonatal Intensive Care Unit at Nationwide Children's Hospital. This year he began the first year of a second two-year term as President of the Medical Staff. In collaboration with the motility specialists in the pediatric gastroenterology division he has developed an extremely busy gastric stimulator program for children and adolescents with gastroparesis. Nationwide Children's Hospital is one of only three programs in the United States that performs implantation of gastric stimulators for pediatric patients. This year, Dr. Teich and the motility team launched a sacral nerve stimulation program for the management of refractory fecal and uri-

nary incontinence in pediatric patients. Dr. Teich is also Co-Director of the Columbus Fetal Medicine Collaborative and Surgical Director of the Bariatric Surgery Program at Nationwide Children's Hospital.

In our graduate programs, Dr. Helena Crowley completed the residency in pediatric surgery. In July 2012 she joined the faculty in pediatric surgery at St. Christopher's Hospital for Children and the Drexel University College of Medicine in Philadelphia, Pennsylvania as an Assistant Professor of Surgery and Pediatrics. Dr. Johanna Askegard will begin the chief residency in pediatric surgery. Dr. Mehul Raval, who completed a residency in general surgery at Northwestern University McGaw Medical Center in Chicago Illinois, will begin the residency in pediatric surgery. Dr. Katherine Dominguez completed the fellowship in pediatric surgical critical care. She will begin a Pediatric Surgery Fellowship at Children's Hospital of Wisconsin in Milwaukee, Wisconsin. Dr. Keith Webb, who completed a residency in general surgery at the Greenville Hospital System in Greenville, South Carolina, will begin the residency in surgical critical care.

The members of the Division of Pediatric Surgery are committed to the educational, research, clinical, and service missions of the Department of Surgery, The Ohio State University College of Medicine and Nationwide Children's Hospital, and strive to provide the highest quality pediatric surgical care to all of our patients.

Faculty

Gail E. Besner, MD

H. William Clatworthy Professor of Pediatric Surgery

Chief, Division of Pediatric Surgery

BA: Cornell University, Ithaca, NY, 1978

MD: University of Cincinnati, Cincinnati, Oh., 1982

Specialty Training: Brigham and Women's Hospital, Boston, Mass.; Children's Hospital of Buffalo, Buffalo, NY

Appointment: 1991

Specialty Interests: Pediatric congenital anomalies, necrotizing enterocolitis, pediatric burn injuries, conjoined twins

Research Interests: Growth factor and stem cell therapy for protection of the intestines from injury



Besner

Jennifer H. Aldrink, MD

Assistant Professor of Clinical Surgery

BA: Wake Forest University, Winston-Salem, NC, 1995

MD: East Carolina University School of Medicine, Greenville, NC, 2000

Specialty Training: Duke University Medical Center, Durham, NC; Nationwide Children's Hospital, Columbus, Oh.

Appointment: 2009

Research Interests: Osteosarcoma pulmonary metastases, childhood malignancy and obesity, childhood melanoma, gastroschisis



Aldrink

David R. Brigstock, PhD

Associate Professor of Surgery

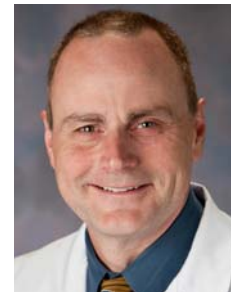
BS: Brunel University, West London, United Kingdom, 1984

PhD: Cambridge University, Cambridge, United Kingdom, 1988

Specialty Training: Harvard University, Cambridge, Ma.

Appointment: 1991

Research Interests: Biology of connective tissue growth factor



Brigstock

Katherine J. Deans, MD, MHSc.

Assistant Professor of Surgery

BA: Wellesley College, Wellesley, Ma., 1994

MD: Dartmouth Medical School, Lebanon, NH, 1998

MHSc: Duke University School of Medicine, Durham, NC, 2005

Specialty Training: University of Pennsylvania School of Medicine, The Children's Hospital of Philadelphia, Philadelphia, PA.

Appointment: 2011

Specialty Interests: Congenital anomalies, thoracic surgery, minimally invasive surgery

Research Interests: Comparative effectiveness of surgical interventions



Deans

Karen A. Diefenbach, M.D.

Assistant Professor of Clinical Surgery

M.D.: University of Illinois College of Medicine, Peoria, Il., 1996

Specialty Training: Yale University School of Medicine, New Haven, Ct.

Appointment: 2012

Specialty Interests: Minimally invasive surgical correction of congenital anomalies

Research Interests: Clinical and outcomes research in necrotizing enterocolitis, surgical nutrition, and surgical education



Diefenbach

Renata B. Fabia, MD, PhD

Assistant Professor of Clinical Surgery

MD: Silesian University School of Medicine, Katowice, Poland, 1985

PhD: Lund University, Lund, Sweden, 1993

Specialty Training: The Ohio State University, Columbus, Oh.; Children's Medical Center, Dallas, Tx.

Appointment: 2003

Specialty Interests: General surgery in children and adolescents; burn and trauma management

Research Interests: Pediatric burn injury, pediatric trauma, inflammatory bowel disease



Fabia

Jonathan I. Groner, MD

Professor of Clinical Surgery

Interim Chief, Division of Pediatric Surgery

BS: Northwestern University, Evanston, Il., 1982

MD: Northwestern University, Evanston, Il., 1984

Specialty Training: Medical College of Wisconsin, Milwaukee, Wi.; Children's Hospital, Columbus, Oh.

Appointment: 1999

Specialty Interests: Trauma, child advocacy

Research Interests: Trauma prevention



Groner

Brian D. Kenney, MD, MPH

Assistant Professor of Clinical Surgery

BA: University of Notre Dame, South Bend, In., 1979

MD: Medical College of Ohio, Toledo, Oh., 1983

MPH: Harvard University School of Public Health, Boston, Ma., 1990

Specialty Training: University of Montreal, Montreal, Quebec, Canada

Appointment: 2003

Specialty Interests: Laparoscopy, thoracoscopy, critical care, and thoracic surgery

Research Interests: Clinical epidemiology and outcomes research



Kenney

Denis R. King, MD

Clinical Associate Professor of Surgery

BS: University of Notre Dame, South Bend, In., 1965

MD: Hahnemann Medical College, Philadelphia, Pa., 1969

Specialty Training: The Ohio State University Hospital; Nationwide Children's Hospital, Columbus, Oh.

Specialty Interests: Cancer, nutrition

Research Interests: Pediatric oncology



King

Marc P. Michalsky, MD

Associate Professor of Clinical Surgery

BA: Brandeis University, Waltham, Ma., 1988

MD: University of Medicine and Dentistry of New Jersey, Newark, NJ, 1992

Specialty Training: University of Medicine and Dentistry of New Jersey, Newark, NJ; Columbus Children's Hospital, Columbus, Oh.

Appointment: 2004

Specialty Interests: Minimally invasive surgery, childhood obesity

Research Interests: Childhood obesity, quality performance, surgical outcomes



Michalsky

Peter C. Minneci, MD, MHSc.

Assistant Professor of Surgery

BS: Cornell University, Ithica, NY, 1994

MD: New York University School of Medicine, New York, NY, 1998

MHSc: Duke University School of Medicine, Durham, NC, 2005

Specialty Training: Massachusetts General Hospital, Boston Ma.; National Institutes of Health, Bethesda, Md.; The Children's Hospital of Philadelphia, Philadelphia, Pa.

Appointment: 2011

Specialty Interests: Minimally invasive surgery, thoracic Surgery

Research Interests: Clinical research including surgical outcomes and clinical trials of congenital and acquired pediatric surgical diseases.



Minneci

R. Lawrence Moss, MD

E. Thomas Boles Jr. Professor of Surgery; Surgeon-in-Chief

BA: Stanford University, Stanford Ca., 1982

MD: University of California San Diego, La Jolla Ca., 1986

Specialty Training: Virginia Mason Medical Center Seattle Wa., Northwestern University Chicago, Chicago, Il.

Appointment: 2011

Specialty Interests: Neonatal surgery, pelvic malformations, ECMO, conjoined twins

Research Interests: Surgical outcomes, evidence based surgery, necrotizing enterocolitis



Moss

Benedict C. Nwomeh, MD, MPH

Associate Professor of Clinical Surgery

Undergraduate Degree: Faculty of Science, University of Lagos, Lagos, Nigeria, 1981

MD: College of Medicine, University of Lagos, Lagos, Nigeria, 1986

MPH: The Ohio State University, Columbus, Oh., 2011

Specialty Training: Medical College of Virginia, Virginia Commonwealth University, Richmond, Va.; Children's Hospital of Pittsburgh, Pittsburgh, Pa.

Appointment: 2003

Specialty Interests: Pediatric general surgery, neonatal surgery, pediatric minimally invasive surgery, pediatric thoracic surgery

Research Interests: Surgical education, clinical outcomes



Nwomeh

Steven Teich, MD

Clinical Associate Professor of Surgery

BS, MS: Rensselaer Polytechnic Institute, Troy, NY, 1976

MD: State University of New York at Buffalo, NY, 1981

Specialty Training: George Washington University Medical Center, Washington, DC; Children's Hospital of Pittsburgh, Pa.

Specialty Interests: Gastrointestinal dysmotility, epidermolysis bullosa, laparoscopic surgery

Research Interests: Quality improvement and surgical clinical pathways



Teich

Emeritus Faculty

E. Thomas Boles, Jr., MD

Professor Emeritus of Surgery

BS: College of William and Mary, Williamsburg, Va., 1942

MD: Harvard University, Cambridge, Ma., 1945

Donna A. Caniano, MD

Professor Emeritus of Surgery

B.A.: Vassar College, Poughkeepsie, NY, 1972

M.D.: Albany Medical College, Albany, NY, 1976

Resident Staff

Helena M. Crowley, MD

Clinical Instructor and Chief Resident

BA: Yale University, 1997

MD: Tufts University School of Medicine, 2005

Johanna R. Askegard-Giesmann, MD

Clinical Instructor and Assistant Chief Resident

BA: University of Minnesota, 1999

MD: The Chicago Medical School, Rosalind Franklin School of Medicine & Science, 2004

Kathleen M. Dominguez, MD

Surgical Critical Care Fellow

BA: University of Northern Colorado, 2000

MD: University of Colorado School of Medicine, 2004

Catherine Paris, MD

MIS/Bariatric Fellow

MD: Université de Sherbrooke, 2003

Mission

The Division of Pediatric Surgery, in alignment with Nationwide Children's Hospital, believes that no child should be refused necessary care and attention for lack of ability to pay. Upon this fundamental belief, NCH is committed to fulfilling the CARES mission by providing the highest quality: Patient Care; Advocacy for children and families; Pediatric Research; Education of patients, families and future providers; and Outstanding Service to accommodate the needs of patients and families. Our vision is to create optimal health for every child in our community.

Research Programs

The Pediatric Surgery Basic Science Research Laboratory focuses on two major areas of clinical interest. Dr. Besner's laboratory studies heparin-binding EGF-like growth factor (HB-EGF) and its ability to protect the intestines from various forms of injury. These research projects continue to be funded by the National Institutes of Health and include:

- Studies of the effect of HB-EGF on intestinal stem cells.
- Stem cell transplantation in protection of the intestines from injury.

- Production of tissue engineered intestine.
- Determination of the signal pathways used by HB-EGF in intestinal cytoprotection.
- Studies of the effects of HB-EGF in several established animal models of intestinal injury.
- Design of HB-EGF clinical trials in the prevention of necrotizing enterocolitis in preterm infants.

The second area of interest is the role played by Connective Tissue Growth Factor (CTGF) in scarring and fibrosis. These studies are led by Dr. Brigstock and focus on the understanding of how CTGF regulates immune function and fibrogenic pathways after injury. This NIH-funded work includes the following projects:

- Structure-function analysis of CTGF, with emphasis on identification of unique integrin-binding domains.
- The role of CTGF-related molecules, CCN4 and CCN5, in hepatic stellate cell function.
- The role of HB-EGF in regulating CTGF production and fibrogenic pathways in hepatic stellate cells.
- Regulation of CTGF expression in hepatic stellate cells or pancreatic stellate cells by novel microRNAs.
- Mechanisms of alcohol-induced CTGF expression in pancreatic stellate cells.
- Role of acinar cell-derived CTGF in regulation of immune responses after pancreatic injury.

The Pediatric Surgery Clinical Research Program focuses on outcomes and clinical translational research. The Deans-Minneci laboratory is developing and implementing a comprehensive surgical outcomes research program which will employ a wide range of methodologies in order to determine optimal interventions for the management of surgical diseases and the minimization of post-operative complications. Initial areas of focus include:

- Management and interventions for non-accidental trauma
- Quality improvement projects for pediatric surgical procedures
- Comparative effectiveness studies of surgical interventions for congenital anomalies
- Translational studies exploring the role of intravascular hemolysis during ECMO

Accomplishments in Research

Gail E. Besner, MD

Significant accomplishments have occurred in the Besner laboratory this year. Dr. Besner currently holds two R01 grants from the NIH to continue her basic science research on heparin-binding EGF-like growth factor (HB-EGF). One of these grants was renewed for the second time in 2011, which will take the

laboratory through its twentieth year of continuous NIH funding. Dr. Besner's research was presented at multiple international and national meetings this year. Dr. Besner presented her research as an invited guest speaker at the 52nd Annual Meeting of the European Society for Pediatric Research in New Castle, England, and at the American Academy of Pediatrics Perinatal Section's 79th Perinatal & Developmental Medicine Symposium. She was also invited to present her research as the Patricia C. Moynihan Women in Academic Surgery Visiting Professor at East Tennessee State University. Trainees from Dr. Besner's laboratory presented their research at the annual meetings of the American Pediatric Surgical Association, the Surgical Section of the American Academy of Pediatrics, the Society of Critical Care medicine, the Academic Surgical Congress, and the American Burn Association. Many publications have resulted from this year's work. In addition, Dr. Iyore James received the 16th Annual Department of Surgery Research Conference Award from the Ohio State University, Dr. Mika Matthews received the James D. King Research Award from the Department of Surgery, and Dr. Dan Watkins received the First Place Research Award from the Columbus Surgical Society. In 2011, Dr. Besner was appointed as the Vice-Chair of the American College of Surgeons Surgical Research Committee.

David R. Brigstock, PhD

Dr. Brigstock continues his NIH-funded studies of the role of connective tissue growth factor (CTGF) in organ fibrosis, with emphasis on the liver and pancreas. His laboratory is currently supported by 3 NIH R01 grants including the newest, awarded in March 2012, to study the regulation of CTGF by novel microRNAs in hepatic stellate cells, the principal fibrogenic cell type in the liver. Data from the latter study were selected for presentation by Li Chen PhD, a post-doctoral fellow, in the Basic Science Plenary Session of the Academic Surgical Congress in February 2012. Recent work from Dr Brigstock's lab indicates that, in addition to playing a vital role in fibrosis during chronic injury, CTGF may also mediate important immune responses following acute injury in the pancreas. This work is being undertaken by Alyssa Charrier, a graduate student in the Molecular and Cellular Developmental Biology Program at OSU, who presented her findings at the Annual Meeting of the American Society for Cell Biology in December 2011 and at Digestive Disease Week in May 2012. A collaborative study between the Brigstock and Besner labs was spear-headed by Dr. Gunagcun Huang, MD, PhD, who identified HB-EGF as an anti-fibrotic molecule in the liver. This new understanding of an additional cytoprotective property of HB-EGF as it relates to suppression of fibrogenic pathways was published in *Laboratory Investigation* in 2012.

Active Research Grants

Aldrink JH. Thyroid Nodules and Radiation Exposure, Nationwide Children's Research Institute, E. Thomas Boles Pediatric Surgery Endowment Fund, July 2011, \$20,500

Aldrink JH, The Use of Ketorolac in Surgical Neonates, Nationwide Children's Research Institute, Columbus, Ohio June 1, 2012 – May 31, 2014, \$32,000. E. Thomas Boles Pediatric Surgery Endowment, May 2012, \$10,000

Besner G. HB-EGF Therapy for Necrotizing Enterocolitis. National Institutes of Health Grant #1 R01 DK074611, June 1, 2007 – May 31, 2013, \$1,800,000

Besner G. HB-EGF and Intestinal Ischemia/Reperfusion. National Institutes of Health Grant #2 R01 GM61193-05, Sept 30, 2011 – May 31, 2015, \$1,245,280

Besner G. Novel Therapeutic Targets in Necrotizing Enterocolitis. National Institutes of Health Grant #K23 DK078909, Feb 1, 2008 – Jan 31, 2013, \$791,215

Besner G. Necrotizing Enterocolitis Surgery Trial (NEST). National Institutes of Health. September 1, 2011 – ongoing

Besner G. HB-EGF Therapy for Necrotizing Enterocolitis. The Research Institute at Nationwide Children's Hospital, January 1, 2012 – December 31, 2012, \$120,000

Brigstock DR. Mechanisms of CTGF-Induced Liver Disease (R01AA016003-01A2), National Institutes of Health, April 15, 2007 – March 31, 2013, \$1,125,000

Brigstock DR. CTGF in Pancreatic Stellate Cell-Mediated Fibrogenesis (1R01AA015554-01A2) National Institutes of Health, September 30, 2007 – August 31, 2012, \$1,125,000

Brigstock DR. MicroRNA regulation of CTGF in hepatic stellate cells (1R01AA021276-01) National Institutes of Health, March 5, 2012 – March 4, 2017, \$1,125,000

Diefenbach, KA. Co-Investigator, The advancement of minimally invasive surgery skills in pediatric surgeons. SAGES Education and Research Foundation Grant, September 2008 – present, \$35,000

Michalsky MP. Prediction of Outcome of Bariatric Surgery Using the Autonomic and Enteric Nervous Systems. E. Thomas Boles Endowment Fund, October 6, 2008 – October 6, 2013, \$11,600

Michalsky MP. Adolescent Bariatrics: Controlled Longitudinal Study of Psychosocial Development (TEEN VIEW). National Institute of Diabetes & Digestive & Kidney Disease (NIDDK), April 1, 2008 – March 31, 2012, \$60,000

Michalsky MP. Dietary Intake and Eating Behavior in Adolescents who Undergo Bariatric Surgery, National Institute of Diabetes & Digestive & Kidney Disease (NIDDK), October 1, 2008 – September 30, 2013, \$72,856

Michalsky MP. Adolescent Bariatrics: Assessing Health Benefits and Risks or the Teen-Longitudinal Assessment of Bariatric Surgery (TEEN-LABS), National Institute of Diabetes & Digestive & Kidney Disease (NIDDK), April 1, 2008 – March 31, 2012, \$219,738

Moss, RL. ISPIRE Center Partnership on Biologic Markers in Neonatal Critical Illness. Ikaria Corp, December 1, 2010 – December 1, 2012, \$3,184,911.

Wold L, **Teich S.** Characterization of heart function in obese rats following Roux-en-Y gastric bypass. Fung-Wexner Endowment. August 1, 2011 – July 31, 2012, \$10,000.

Clinical Programs

- Level I pediatric trauma program with American College of Surgeons verification.
- American Burn Association-verified multidisciplinary pediatric burn center.
- Columbus Fetal Medicine Collaborative in conjunction with The Ohio State University Medical Center, Mount Carmel Health System, and OhioHealth.
- Pediatric and adolescent bariatric surgery program.
- Multidisciplinary ECMO neonatal and pediatric program.
- Minimally invasive pediatric surgery program.
- Chest wall center for comprehensive care of chest wall anomalies.
- Surgical oncology program.
- Surgical endocrinology program
- Gastrointestinal motility disorders program

Accomplishments in Clinical Care

- Maturation of outpatient care for children with thermal injuries.
- Maturation of the bariatric surgery program for the treatment of morbidly obese adolescents, and participation in a funded clinical trial using the Lap-Band.
- Development of advanced minimally invasive procedures for thoroscopic and laparoscopic management of congenital and acquired lung and intestinal disorders.
- Development of a multi-disciplinary surgical oncology clinic.
- Expansion of pediatric surgical clinical and operative services to Westerville, Ohio and clinical services to Mansfield, Ohio.

Clinical Statistics

OR Procedures	4,015
Outpatient Visits	9,238
Admissions	2,236
Patient Days	9,855
Average Length of Stay (Days)	4.41

Educational Programs

- ACGME fully accredited two-year residency in pediatric surgery, which accepts one resident per year through the National Residency Matching Program. The residency qualifies candidates for the Certificate of Special Competence in Pediatric Surgery upon successful completion of the Qualifying and Certifying Examinations in Pediatric Surgery, as given by the American Board of Surgery.
- ACGME fully accredited fellowship in pediatric surgical critical care, which annually accepts one resident at the PGY-4 level or higher in general surgery. Completion of the fellowship makes a candidate eligible for the Examination in Surgical Critical Care administered by the American Board of Surgery.
- Clinical fellowships in trauma and clinical research and in minimally invasive and adolescent bariatric surgery for senior level residents in general surgery.
- Basic science research fellowships in the Pediatric Surgical Research for residents in accredited programs in general surgery.
- Clinical research fellowships in clinical and outcomes research for residents in accredited programs in general surgery.
- Bariatric surgery fellowship for residents in accredited programs in general surgery.
- Comprehensive pediatric surgery rotations in the care of infants, children, and adolescents with surgical disease, for junior and senior residents in general surgery from Ohio State University Medical Center, OhioHealth and the Mount Carmel Health System.
- Comprehensive pediatric surgery rotations in the care of pediatric patients for interns in the combined Nationwide Children's Hospital-Doctor's Hospital pediatrics residency and for fellows in the pediatric critical care medicine fellowship at Children's Hospital.
- Clinical clerkship in pediatric surgery.
- Subinternship in pediatric surgery.

Accomplishments in Education

- Ongoing clinical research in surgical education techniques.
- Ongoing clinical research on optimal communication with parents of pediatric surgical patients.
- Continued provision of ACGME-accredited Pediatric Surgery Fellowship.

Community Outreach Programs

- Nationwide Children's Hospital opened the doors to its first suburban surgery center, The Westerville Surgery Center, this year. The center provides expert pediatric surgical care staffed by NCH pediatric surgeons from NCH; state-of-the-art operating rooms designed specifically for children and adolescents; a large, family-friendly environment; plenty of free parking; a separate entrance and exit for pre-operative and post-operative patients. The center includes a first floor outpatient surgery unit with four state-of-the-art operating suites and second floor medical and surgical pediatric subspecialty clinic suites. A broad complement of pediatric expertise including pediatric surgeons, pediatric anesthesiologists, anesthesiologists, specialty surgeons, nursing professionals, and child-life specialists are provided.
- The injury passenger safety program, part of the NCH trauma program, concentrates on child safety seats and bicycle helmets.
- Regular lectures about pediatric trauma and burn injuries, presented by physician and nursing members of the Nationwide Children's Hospital trauma and burn programs, are presented to emergency services personnel in the Central Ohio and referral area continuously throughout the year.

Accomplishments in Community Outreach

- Distribution of 947 bicycle helmets to children in central Ohio, in cooperation with the Columbus Blue Jacket Foundation
- Inspection of 155 child safety seats and distribution of 491 child safety seats through the trauma program of Nationwide Children's Hospital
- Enhancement of the medical car seat portion of the program; through grant funding acquired demo seats which are used so children can try the fit of medical seats, before ordering them.
- Over 1,520 school aged children of central Ohio have been provided specialized burn prevention education

Publications

Aldrink JH, Kenney BD. Laparoscopic excision of an esophageal duplication cyst. *Surg Laparosc Endosc Percutan Tech.* 2011 Oct; 21(5):e280-3.

Aldrink JH; Ma M, Caniano DA, Wispe J, Puthoff T: Safety of Ketorolac in surgical neonates and infants age 0-3 months. *Journal of Pediatric Surgery* 46:1081-1085, 2011 [Epub ahead of print]

Aldrink JH; Caniano DA, Nwomeh BC, Variability in Gastroschisis Management: A Survey of North American Pediatric Surgery Training Programs. *J Surg Res*. 2011 [Epub ahead of print]

Chen CL, Yu X, James IO, Zhang HY, Yang J, Radulescu A, Zhou Y, **Besner GE**. Heparin-binding EGF-like growth factor protects intestinal stem cells from injury in a rat model of necrotizing enterocolitis. *Lab Invest*. 2012 Mar;92(3):331-44.

Zhang HY, James I, Chen CL, **Besner GE**. Heparin-binding epidermal growth factor-like growth factor (HB-EGF) preserves gut barrier function by blocking neutrophil-endothelial cell adhesion after hemorrhagic shock and resuscitation in mice. *Surgery*. 2012 Apr;151(4):594-605.

Rocourt DV, Hall M, **Kenney BD, Fabia R, Groner JL, Besner GE**. Respiratory failure after pediatric scald injury. *J Pediatr Surg*. 2011 Sep;46(9):1753-8.

Lambert DK, Christensen RD, Baer VL, Henry E, Gordon PV, **Besner GE**, Wilkes J, Wiedmeier SE, Gerday E. Fulminant necrotizing enterocolitis in a multihospital healthcare system. *J Perinatol*. 2012 Mar;32(3):194-8.

Giannone PJ, Alcamo AA, Schanbacher BL, Nankervis CA, **Besner GE**, Bauer JA. Poly(ADP-ribose) polymerase-1: a novel therapeutic target in necrotizing enterocolitis. *Pediatr Res*. 2011 Jul; 70(1):67-71.

Radulescu, Andrei; Zhang, Hong-Yi; Chen, Chun-Liang; Chen, Yan; Zhou, Yu; Yu, Xiaoyi; Otabor, Iyore; Olson, Jacob K.; **Besner, Gail E**. Heparin-Binding EGF-Like Growth Factor Promotes Intestinal Anastomotic Healing. *J Surgical Research* vol. 171(2) December, 2011. p. 540-550

Yu, Xiaoyi; Radulescu, Andrei; Chen, Chun-Liang; James, Iyore O.; **Besner, Gail E**. Heparin-Binding EGF-Like Growth Factor Protects Pericytes from Injury. *J Surgical Research* vol. 172 (1) January, 2012. p. 165-176

Chen L, Charrier AL, Leask A, French SW, **Brigstock DR**. Ethanol-stimulated differentiated functions of human or mouse hepatic stellate cells are mediated by connective tissue growth factor. *J Hepatol*. 2011 Aug;55(2):399-406.

Huang G, **Besner G, Brigstock DR** Heparin-binding epidermal growth factor-like growth factor suppresses experimental liver fibrosis in mice *Lab Invest*. 92:703-712, 2012

Piao R-L, **Brigstock, D**, Zhu J, Zhang M-L, Gao R. The clinical significance of connective tissue growth factor in hepatitis B virus-induced hepatic fibrosis. *World Journal of Gastroenterology* 18: doi:10.3748/wjg.v18.i15.1 2012

Huang G, **Brigstock DR**. Regulation of hepatic stellate cells by connective tissue growth factor *Frontiers in Bioscience* 17:2495-2507, 2012

Raval MV, **Deans KJ**, Rangel SJ, Kelleher KJ, **Moss RL**. Factors associated with imaging modality choice in children with appendicitis. *J Surg Res*. 2012 Apr 10.

Shehata BM, Gupta NA, Katzenstein HM, Steelman CK, Wulkan ML, Gow KW, Bridge JA, **Kenney BD**, Thompson K, de Chadrevian JP, Abramowsky CR. Undifferentiated embryonal sarcoma of the liver is associated with mesenchymal hamartoma and multiple chromosomal abnormalities: a review of eleven cases. *Pediatr Dev Pathol* 14:111-116, 2011.

Steelman C, Katzenstein H, Parham D, Stockwell C, Ricketts R, Abramowsky C, Bridge JA, Sorensen PH, **Kenney BD**, Olson T, Igbokwe A, Lopez-Terrada D, Shehata B. Unusual presentation of congenital infantile fibrosarcoma in seven infants with molecular-genetic analysis. *Fetal Pediatr Pathol* 30:329-337, 2011.

Askegard-Giesmann JR, O'Brien S, Wang W, **Kenney BD**. Increased Utilization of Enoxaparin in Pediatric Trauma Patients. *J Pediatr Surg* 47:980-983, 2012.

Messiah SE, Lopez-Mitnik G, Winegar D, Sherif B, Arheart KL, Reichard KW, **Michalsky MP**, Lipshultz SE, Miller TL, Livingstone AS, de la Cruz-Muñoz N. Changes in weight and co-morbidities among adolescents undergoing bariatric surgery: 1-year results from the Bariatric Outcomes Longitudinal Database. *Surg Obes Relat Dis*. 2012 Mar 28. [Epub ahead of print]

Michalsky MP. Comment on: Dietary assessment of adolescents undergoing laparoscopic Roux-en-Y gastric bypass surgery: macro- and micronutrient, fiber and supplement intake. *Surg Obes Relat Dis*. 2011 Dec 10. [Epub ahead of print]

Michalsky MP, Reichard K, Inge T, Pratt J, Lenders C; American Society for Metabolic and Bariatric Surgery. ASMBS pediatric committee best practice guidelines. *Surg Obes Relat Dis*. 2012 Jan-Feb;8(1):1-7. Epub 2011 Sep 23.

Michalsky MP, Kramer RE, Fullmer MA, Polfuss M, Porter R, Ward-Begnoche W, Getzoff EA, Dreyer M, Stolzman S, Reichard KW. Developing criteria for pediatric/adolescent bariatric surgery programs. *Pediatrics*. 2011 Sep;128 Suppl 2:S65-70.

Michalsky MP, Inge T. Adolescent Bariatric Surgery: Acknowledging a Knowledge Gap While Providing Needed Healthcare. *Bariatric Time* 8(12): 12-13, December 2011.

Teepel EA, **Teich S**, Schuster DP, **Michalsky MP**. Early metabolic improvement following bariatric surgery in morbidly obese adolescents. *Pediatr Blood Cancer*. 2012 Jan;58(1):112-6.

Cegala DJ, Chisolm DJ, **Nwomeh BC**. Further examination of the impact of patient participation on physicians' communication style. *Patient Educ Couns*. 2012 May 4.

Kushner AL, Kingham TP, **Nwomeh BC**. Medicine and surgery: the yin and yang of health systems. *Lancet*. 2012 Apr 21;379(9825):1488.

Oyetunji TA, Stevenson AA, Oyetunji AO, Onguti SK, Ames SA, Haider AH, **Nwomeh BC**. Profiling the ethnic characteristics of domestic injuries in children younger than age 5 years. *Am Surg*. 2012 Apr;78(4):426-31.

Nwomeh BC. Teaching technical skills to medical students: beyond 'see one, do one, teach one'. *Ann Afr Med*. 2012 Jan-Mar;11(1):46-7.

Oyetunji TA, **Nwomeh BC**, Ong'uti SK, Gonzalez DO, Cornwell EE 3rd, Fullum TM. Laparoscopic appendectomy in children with complicated appendicitis: ethnic disparity amid changing trend. *J Surg Res*. 2011 Sep;170(1):e99-103.

Oyetunji TA, Ong'uti SK, Bolorunduro OB, Cornwell EE 3rd, **Nwomeh BC**. Pediatric negative appendectomy rate: trend, predictors, and differentials. *J Surg Res*. 2012 Mar;173(1):16-20.

Abstracts

Chen C, James I, Yu X, **Besner G**: HB-EGF Protects Intestinal Stem Cells from Hypoxic Injury via the EGFR/PI3K/MAPK Pathway. *J Surgical Research*, 165:261, 2011.

Yang J, Chen C-L, Watkins D, Zhang H-Y, **Besner G**: Heparin-binding EGF-like Growth Factor (HB-EGF) and Mesenchymal Stem Cells (MSC) Act Synergistically to Prevent Experimental Necrotizing Enterocolitis. *Journal of the American College of Surgeons*, October, 2011.

Besner G, Yang J, Watkins D, Zhou Y, Chen C-L: Heparin-binding EGF-like Growth Factor to Prevent Necrotizing Enterocolitis. *J Pediatric Research*, 2012.

Tirumuru N, Chen L, Balasubramanian A, Groopman JE, **Brigstock DR**, Anand A, Ganju RK Activation of the connective tissue growth factor (CTGF) - transforming growth factor α (TGF- α) axis in hepatitis C virus-expressing hepatocytes. *Hepatology* 53 (Suppl): A2062, 2011

Charrier A, **Brigstock DR** (2011). Immune responses in alcohol-induced pancreatic injury are associated with CCN2 expression and action in acinar cells *Mol Biol Cell* 22: (Suppl), A744, 2011

Chen L, Charrier A, Zhou Y, **Brigstock DR**. The pro-fibrotic molecule, connective tissue growth factor (CTGF), is regulated by microRNA-214 (miR-214) in hepatic stellate cells. *J. Surg. Res.* 172: A15.5, 2012

Reichard K., **Michalsky M**. Adolescent Bariatric Surgery Performed at Adult Bariatric Surgery Centers of Excellence. *Surgery for Obesity and Related Diseases*; 7 (3): 414-414, 2011

Book Chapters

Nthumba P, **Fabia R**, Burns. In *Paediatric Surgery: A Comprehensive Text For Africa Global Help Publications*, 214-221, 2011

Berman L, **Moss RL**. Necrotizing Enterocolitis: In: Stephen E. Dolgin and Chad Hammer (Eds), *Surgical Care of Newborn Malformations*. World Scientific, Singapore, 2012

Nwomeh BC, **Caniano DA**. Ethical Considerations. In: Coran AG, Caldamone A, Adzick NS, Krummel TM, Laberge J, Shamberger R(eds): *Pediatric Surgery, 7th ed*. Philadelphia, Elsevier, 2011

Teich S, **Michalsky, MP**. Quality Improvement, Education, and Outcomes Research in Pediatric Surgery: In: Mattei P, et al (Eds), *Fundamentals of Pediatric Surgery, Second Edition*, Chapter 39, Springer, New York, 2011.

Visiting Professorships

Besner GE. “HB-EGF Therapy for Intestinal Injury - Bringing Research Results to the Bedside”, Surgical Grand Rounds, University of Wisconsin at Madison, Madison, Wi.

Besner GE. “HB-EGF Therapy for Intestinal Injury - Bringing Research Results to the Bedside”, Patricia C. Moynihan Women in Academic Surgery Lectureship, Visiting Professorship, East Tennessee State University, Johnson City, Tn.

Moss RL. “Biologic Markers in NEC”, Cincinnati Children’s Hospital Colorectal Surgery Course Cincinnati, Oh., November 2011

Moss RL. “Human Nature and Personal Experience: the surgeon’s worst enemies”, Robert Gross Lecture University of Texas, Houston Medical Center, Houston, Tx., December 2011

Moss RL. “How to Carry a Cat by the Tail”, Loren R. Chandler Lecture, Stanford University, Palo Alto, Ca., April 2012

International Presentations

Besner G, Yang J, Watkins D, Zhou Y, Chen C-L. Invited Speaker. HB-EGF: Heparin-binding EGF-like Growth Factor (HB-EGF) to Prevent Necrotizing Enterocolitis, 52nd Annual Meeting of the European Society for Pediatric Research, New Castle, England, October 14, 2011

Brigstock DR. Anti-fibrotic targets that exploit the CTGF axis in hepatic stellate cells. Novel targets for cancer and connective tissue diseases, International CCN Society, Vancouver, Canada, September 2011

Moss RL. Necrotizing Enterocolitis: surgical considerations, Ipokrates Clinical Seminar, Sorrento, Italy, October 2011

Moss RL. Human nature and personal experience: the neonatal surgeons worst enemies, Ipokrates Clinical Seminar, Sorrento, Italy, October 2011

Moss RL. Understanding NEC: From the bedside to the molecule and back, Ipokrates Clinical Seminar, Sorrento, Italy, October 2011

Moss RL. Novel biologic markers in necrotizing enterocolitis, Italian Society for Neonatology, Sorrento, Italy, October 2011

Nwomeh BC. Education Research, Fundamentals of Research and Career Development Course, Association for Academic Surgery, Lagos, Nigeria, July 20, 2011

Nwomeh BC. Moderator, Fundamentals of Research and Career Development Course, Association for Academic Surgery, Abuja, Nigeria, July 20, 2011

Nwomeh BC. Course Director. Career Workshop for Medical Students, Association for Academic Surgery, Lagos, Nigeria, July 20, 2011

National Presentations

Aldrink JH, Nicol, K, Wang W, Teich S. Fibrous Soft Tissue Tumors: Increased Recurrence Risk for Digital and Extremity Lesions, American Pediatric Surgical Association, San Antonio, Tx., May 2012

Aldrink JH, Willer R, Miao Y, Ranalli M. Renal Tumors in Children Age 5 Years and Older, American Society of Pediatric Hematology Oncology Meeting, New Orleans, La., May 2012

Ranalli, M, Willer R, Miao Y, **Aldrink, JH.** Renal Tumors in Infants Younger than 12 Months of Age, American Society of Pediatric Hematology Oncology Meeting, New Orleans, La., May 2012

Yang J, Chen C-L, Watkins D, Zhang H-Y, **Besner G.** Heparin-binding EGF-like Growth Factor (HB-EGF) and Mesenchymal Stem Cells (MSC) Act Synergistically to Prevent Experimental Necrotizing Enterocolitis. American College of Surgeons, Surgical Forum, San Francisco, Ca., Oct 23, 2011

Besner G. Strategies for Improving Outcome in Patients with Necrotizing Enterocolitis. American Academy of Pediatrics Perinatal Section's 79th Perinatal & Developmental Medicine Symposium, Marco Island, Fl., November 10-13, 2011

Besner G. HB-EGF Therapy for Necrotizing Enterocolitis. American Academy of Pediatrics Perinatal Section's 79th Perinatal & Developmental Medicine Symposium, Marco Island, FL, November 10-13, 2011

Besner G. HB-EGF Therapy for Necrotizing Enterocolitis. Surgery Grand Rounds, American Family Children's Hospital, University of Wisconsin, Madison, WI., January 2012

Lutmer J, Chen C-L, Velton M, Zhang H-Y, **Besner G.** Heparin-binding EGF-like Growth Factor (HB-EGF) Attenuates Acute Lung Injury Following Scald Burn in Mice. Society of Critical Care Medicine Congress, Houston, Tx., February 4, 2012

Zhou Y, Yang J, **Besner G.** Enteric Neural Stem Cell Transplantation Restores Intestinal Motility in Rat Pups Subjected to Necrotizing Enterocolitis. 7th Annual Academic Surgical Congress, Las Vegas, Nv., February 14, 2012

Watkins D, Chen C-L, **Besner G.** Heparin-binding EGF-Like Growth Factor (HB-EGF) Promotes Mesenchymal Stem Cell (MSC) Proliferation and Migration and Decreases MSC Apoptosis. 7th Annual Academic Surgical Congress, Las Vegas, Nv., February 14, 2012

Lutmer J, Chen C-L, Zhang H-Y, Velton M, **Besner G.** Heparin-binding EGF-like Growth Factor (HB-EGF) Attenuates Acute Lung Injury Following Scald Burn in Mice. American Burn Association, San Antonio, Tx., April 2012

VerLee S, Butz C, Ackerman C, Burger J, Fabia R, **Besner G.** The Utility of Virtual Reality in Minimizing Procedural Distress with Pediatric Burn Patients. American Burn Association, San Antonio, Tx., April 2012

Watins D, Zhou Yu, Chen C-L, Darbyshire A, **Besner G.** Heparin-Binding EGF-Like Growth Factor Protects Mesenchymal Stem Cells. Annual Meeting of the Ohio Chapter of the American College of Surgeons, Toledo, Oh., May 4, 2012

Yang J, Chen C-L, Watkins D, Zhang H-Y, **Besner G.** Mesenchymal Stem Cells (MSC) and Heparin-binding EGF-like Growth Factor (HB-EGF) Act Synergistically to Prevent Experimental Necrotizing Enterocolitis. American Pediatric Surgical Association, San Antonio, Tx., May 22, 2012

Besner G. Invited Speaker. HB-EGF Therapy for NEC. American Pediatric Surgical Association, San Antonio, Tx., May 22, 2012

Tirumuru, N. Chen L, Balasubramanian A, Groopman JE, **Brigstock DR**, Anand A, Ganju RK. Activation of the connective tissue growth factor (CTGF) - transforming growth factor α (TGF- α) axis in hepatitis C virus-expressing hepatocytes. American Association for the Study of Liver Disease, San Francisco, Ca., November 4-8, 2011

Abbott RD, Purmessur D, Monsey RD, **Brigstock DR**, Iatridis JC. Differential Responses of Human Nucleus Pulposus Cells with Varying Degenerative Levels to TGF β 3+Dex, CTGF, and Link-N. New Horizons In Intervertebral Disc Research, Philadelphia, Pa., November 16-18, 2011

Charrier A, **Brigstock DR**. Immune responses in alcohol-induced pancreatic injury are associated with CCN2 expression and action in acinar cells. American Society for Cell Biology, Denver, Co., December 3-7, 2011

Abbott RD, Purmessur D, **Brigstock DR**, Iatridis JC. Differential Responses of Human Nucleus Pulposus Cells with Varying Degenerative Levels to TGFB3, CTGF, and Link-N. Orthopaedic Research Society, San Francisco, Ca., February 4-7, 2012

Chen L, Charrier A, Zhou Y, **Brigstock DR**. The pro-fibrotic molecule, connective tissue growth factor (CTGF), is regulated by microRNA-214 (miR-214) in hepatic stellate cells. Academic Surgical Congress, Las Vegas, Nv., Feb 14-16, 2012

Charrier A, **Brigstock DR**. Connective tissue growth factor production by pancreatic acinar cells is associated with regulation of immune function in a mouse model of alcoholic chronic pancreatitis. Digestive Disease Week, San Diego, Ca., May 19-22, 2012

Sulkowski JP, **Minnecci PC**, Asti LA, **Deans KJ**. Discrepancies between a Pediatric Health Information System cohort and an institutional cohort for esophageal atresia. 2012 American Pediatric Surgical Association Annual Meeting. San Antonio, Tx., May 19-20, 2012

VerLee S., Butz C, Ackerman CJ, Burger J, **Fabia R**, **Besner G**. The Utility of Virtual Reality in Minimizing Procedural Distress with Pediatric Burn Patients. Poster, The 44th Annual Meeting in Seattle, Wa., April 24-27, 2012

Groner J. The Good, The Bad, and The Ugly: Recognition and Management of Shock in Pediatric Trauma. Genesis Health Care System, Zanesville, Oh., December 7, 2011

Groner J. Delayed Diagnosis of Injuries in Pediatric Trauma Patients. 19th Annual Memorial Healthcare Trauma Symposium, Hollywood, Fl., February 9, 2012

Groner J. Is Pediatric Trauma an Accident? Potential for Prevention and Intervention. 19th Annual Memorial Healthcare Trauma Symposium, Hollywood, Fl., February 10, 2012

Groner J. Sport Related injuries in the Pediatric Population. 19th Annual Memorial Healthcare Trauma Symposium, Hollywood, Fl., February 11, 2012

Groner J. The Good, The Bad, and The Ugly: Recognition and Management of Shock in Pediatric Trauma. MedCentral Health System, Mansfield, Oh., March 13, 2012

Michalsky M. Chairman, Adolescent Symposium Presentations. American Society of Metabolic and Bariatric Surgery, Orlando, Fl., June 13-17, 2011

Michalsky M. Surgery for Pediatric Obesity; Rationale, Ethics, Evaluation and Preparation. ASMBS Fall Education Event, Chicago, Il., September 23-24, 2011

Michalsky M. Reversing Obesity-Related Metabolic Derangement : The Pediatric Surgical Experience. Obesity and Chronic Disease: Making and Unmaking the Epidemic Conference The Ohio State University and Nationwide Children's Hospital, Columbus, Oh., November 1-2, 2011

Michalsky M. Adolescent Bariatric Surgery Performed at Adult Bariatric Surgery Centers of Excellence. 28th Annual Meeting of American Society of Metabolic and Bariatric Surgery, Orlando, Fl., June 12-17, 2011

Moss RL. Measuring surgical quality: where children might actually be little adults, American College of Surgeons National Surgical Quality Improvement Program Annual Meeting, Boston, Ma., July 2011

Moss RL. Darwin to Cochrane: Evolution and Evidence Based Medicine, American College of Surgeons Clinical Congress, San Francisco, Ca., October 2011

Nwomeh BC. Moderator, Child Health Session, Association for Nigerian Physicians in the Americas Annual Meeting, Chicago, Il., July 8, 2011

Nwomeh BC. Pediatric Surgery Textbook for Africa, Alliance for Surgery and Anesthesia Presence (ASAP), Annual Meeting, San Diego, Ca., November 9, 2011

Boland K, Arca M, Diefenbach K, Gundlach M, Pia M, Rosenberg A, Thattaliyath B, Von Oettingen J, **Nwomeh B.** Assessing the Need for a Surgery Curriculum for Pediatric Residency Training. Presented at the Association of Pediatric Program Directors Annual Meeting, San Antonio, Tx., March 30, 2012

Oyetunji TA., Ong'uti SK, Fisher M, Oyetunji AO, Cornwell EE TA, Haider AH, **Nwomeh BC.** Helmet Use Among Pediatric Cyclists In Residential Areas. Quick Shot Presentation at Association for Academic Surgery (Annual Academic Surgical Congress), Las Vegas, Nv., February 14-16, 2012

Nwomeh BC, Chisolm DJ, Cegala DJ. The Impact of Parents' Participation On Pediatric Surgeons' Communication Style. Society of University Surgeons (Annual Academic Surgical Congress), Las Vegas, Nv., February 14-16, 2012

Krishnaswami S, Lamoshi A, Ameh E, Ekeh P, Laryea J, **Nwomeh B.** Motivations And Obstacles To A Career In Surgery In Developing Countries : An Association For Academic Surgery Survey Of Medical Students In West Africa. Quick Shot Presentation at Association for Academic Surgery (Annual Academic Surgical Congress), Las Vegas, Nv., February 14-16, 2012

Dotson JL, **Nwomeh BC**, Andridge R, Anderson, S Crandall, WV. Variation in Management of Intra-Abdominal Abscesses in Children with Crohns Disease. Digestive Diseases Week, San Diego, Ca., May 19-22, 2012

Teich SO Identifying Intra-Abdominal Surgical Emergencies in Medically Fragile, High Risk Children and Adults. 2011 Annual Conference for the Agency for Healthcare Research and Quality, Rockville, Md., September 19, 2011.

Miscellaneous Presentations

Aldrink JH. Acute Abdomen-Acute Care Lecture Series, Nationwide Children's Hospital, Columbus, Oh., August 1, 2011

Aldrink JH. Advances in Minimally Invasive Pediatric Surgery- Pediatric Pearls Conference, Nationwide Children's Hospital, Columbus, Oh., March 8 2012

Aldrink JH. Melanoma Symposium – Pediatric Melanoma, The Ohio State University Ear & Eye Institute, Columbus, Oh., May 5, 2012

Besner G. Pediatric Burn Management. Pediatrics Acute Care Lecture Series, Nationwide Children's Hospital, Columbus, Oh., August 24, 2011

Yang J, **Besner G**. Heparin-binding EGF-like Growth Factor (HB-EGF) Protects the Intestines *in Vivo* by Inducing Mediators of Restitution in Murine Necrotizing Enterocolitis. 6th Annual International Scholar Research Exhibition, The Ohio State University College of Medicine, Columbus, Oh., November 19, 2011

Su Y, Yang J, **Besner G**. Heparin-binding EGF-like Growth Factor (HB-EGF) Promotes Intestinal Restitution *in Vitro* by Enhancing Epithelial Cell-Matrix (ECM) Interactions. 6th Annual International Scholar Research Exhibition, The Ohio State University College of Medicine, Columbus, Oh., November 19, 2011

Besner G. Initial Assessment and Management. Advanced Burn Life Support Course, Columbus, Oh., November 30, 2011

Besner G. Airway Management and Smoke Inhalation. Advanced Burn Life Support Course, Columbus, Oh., November 30, 2011

Besner G. Shock. Advanced Burn Life Support Course, Columbus, Oh., November 30, 2011

Besner G. HB-EGF Therapy for Necrotizing Enterocolitis. Nationwide Children's Hospital Lounge and Learn Series, Columbus, Oh., January 13, 2012

Besner G. Congenital Anomalies of the Esophagus. Pediatric Surgery Tutorial Lecture Series, Nationwide Children's Hospital, Columbus, OH, January 18, 2012

Watkins D, Chen C-L, **Besner G.** Heparin-binding EGF-Like Growth Factor Protects Mesenchymal Stem Cells. Columbus Surgical Society, Columbus, Oh., March 3, 2012. *Winner – First Place Research Prize*

Zhou Y, Yang J, **Besner G.** Neural Stem Cells Genetically Engineered to Overexpress HB-EGF Restore Intestinal Motility in Rat Pups Subjected to Necrotizing Enterocolitis. Nationwide Children's Hospital Research Poster Competition, Columbus, Oh., April 18, 2012

Su, Y, **Besner G.** Heparin-binding EGF-like Growth Factor (HB-EGF) Promotes Intestinal Epithelial Cell Migration by Enhancing Epithelial Cell-Matrix (ECM) Interactions. Nationwide Children's Hospital Research Poster Competition, Columbus, Oh., April 18, 2012

Yang J, **Besner G.** Heparin-binding EGF-like Growth Factor (HB-EGF) Protects the Intestines *in Vivo* by Inducing Mediators of Restitution During Experimental Necrotizing Enterocolitis. Nationwide Children's Hospital Research Poster Competition, Columbus, Oh., April 18, 2012

Lutmer J, Chen C-L, Velton M, Zhang H-Y, **Besner G.** Heparin-binding EGF-like Growth Factor (HB-EGF) Attenuates Acute Lung Injury and Multi-Organ Dysfunction Following Scald Burn in Mice. Nationwide Children's Hospital Research Poster Competition, Columbus, Oh., April 18, 2012

Watkins D, Chen C-L, **Besner G.** Heparin-binding EGF-Like Growth Factor (HB-EGF) Promotes Mesenchymal Stem Cells. Nationwide Children's Hospital Research Poster Competition, Columbus, Oh., April 18, 2012

Matthews M, Watkins D, Darbyshire A, Carson W, **Besner G.** HB-EGF Protects the Intestines from Radiation Therapy-Induced Intestinal Injury. Nationwide Children's Hospital Research Poster Competition, Columbus, Oh., April 18, 2012

Zhou Y, Yang J, **Besner G.** Neural Stem Cells Genetically Engineered to Overexpress HB-EGF Restore Intestinal Motility in Rat Pups Subjected to Necrotizing Enterocolitis. Annual Ohio State University Medical Center Research Day, Columbus, Oh., April 19, 2012

Su, Y, **Besner G.** Heparin-binding EGF-like Growth Factor (HB-EGF) Promotes Intestinal Epithelial Cell Migration by Enhancing Epithelial Cell-Matrix (ECM) Interactions. Annual Ohio State University Medical Center Research Day, Columbus, Oh., April 19, 2012

Yang J, **Besner G.** Heparin-binding EGF-like Growth Factor (HB-EGF) Protects the Intestines *in Vivo* by Inducing Mediators of Restitution During Experimental Necrotizing Enterocolitis. Annual Ohio State University Medical Center Research Day, Columbus, Oh., April 19, 2012

Lutmer J, Chen C-L, Velton M, Zhang H-Y, **Besner G**. Heparin-binding EGF-like Growth Factor (HB-EGF) Attenuates Acute Lung Injury and Multi-Organ Dysfunction Following Scald Burn in Mice. Annual Ohio State University Medical Center Research Day, Columbus, Oh., April 19, 2012

Watkins D, Chen C-L, **Besner G**. Heparin-binding EGF-Like Growth Factor (HB-EGF) Promotes Mesenchymal Stem Cells. Annual Ohio State University Medical Center Research Day, Columbus, Oh., April 19, 2012

Jakatdar A, Zhou Y, **Besner G**. Bone Marrow Derived Mesenchymal Stem Cells can Differentiate into Neurons and Colonize Aganglionic Gut. Annual Ohio State University Medical Center Research Day, Columbus, Oh., April 19, 2012

Bhushan B, Yang J, **Besner G**. The Effect of HB-EGF and Mesenchymal Stem Cells on Protection of the Intestines from Necrotizing Enterocolitis. Annual Ohio State University Medical Center Research Day, Columbus, Oh., April 19, 2012.

Matthews M, Watkins D, Darbyshire A, Carson W, **Besner G**. HB-EGF Protects the Intestines from Radiation Therapy-Induced Intestinal Injury. Department of Surgery Resident Research Symposium, Ohio State University, Columbus Oh., May 24, 2012

Deans KJ, Askegard-Giesmann JR, **Groner JL**, **Minnecci PC**. Mortality increases with repeated episodes of non-accidental trauma in children. Central Ohio Trauma System Trauma Research Symposium. Columbus Oh., May 2012

Fabia R. Community Pediatrician Education, Lounge and Learn Lecture: "Update of Outpatient Burn Care", Columbus, Oh., April 2007, January 2012

Fabia R. COTS (Central Ohio Trauma System) Functional Exercise Planning Meeting, NCH Columbus, Oh., February 2012

Kenney BD. Case Study Presentations: Great Saves- 12th Annual Pediatric Trauma Symposium, Rainbow Pediatric Trauma Center, Cleveland, Oh., September 16, 2011

Teich S. The State of Fetal Surgery in 2012- Perinatal Seminar, Genesis Hospital, Zanesville, Oh., May 8, 2012

Distinguished Visiting Professors

Rebecka L. Meyers, MD

H. William Clatworthy Visiting Professor in the Division of Pediatric Surgery, September 21-22, 2011. Professor of Surgery, University of Utah School of Medicine, Salt Lake City, UT.

Presentation: Pediatric Grand Rounds: Pediatric Liver Tumors: Differential Diagnoses and Update on Treatment from the Children's Oncology Group.

Vinay Nadkarni, MD

Visiting Professor in Critical Care, February 28-29, 2012. Endowed Chair, Pediatric Critical Care Medicine, Department of Anesthesia, Critical Care and Pediatrics, The Children's Hospital of Philadelphia, The University of Pennsylvania Perelman School of Medicine, Philadelphia, PA.

Presentation: Resuscitating Resuscitation- Taking it to the Streets!

Division of Surgical Oncology



Surgical Oncology



William B. Farrar, MD
Chief, Division of Surgical Oncology

In the Division of Surgical Oncology, all clinical and basic research activities are devoted to the evaluation and management of cancer. The mission of the division is reflected in the mission of The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. Our goals are to provide excellence in clinical cancer care, to educate medical students, residents, and fellows, and to conduct clinical and basic research. Most of the research performed in the division is translational, in which ideas and hypotheses from the laboratory are incorporated into clinical evaluation through the clinical trial mechanism.

Dr. Sherif Abdel-Misih recently joined the division of surgical oncology after completing a 2 year fellowship in surgical oncology here at the James Comprehensive Cancer Center. He has taken on the leadership of responsibilities in HIPEC therapies here at the James Cancer Hospital. He has also been a leader in promoting and utilizing robotic surgery in surgical oncology.

Dr. Doreen Agnese continues to distinguish herself as an excellent clinician, working mainly in breast cancer, melanoma, and cancer genetics. This year, she has taken on the added responsibility of co-director of our high risk breast program at the Stephanie Spielman Comprehensive Breast Cancer Center. She was promoted to associate professor in the clinical track. She continues as a PI for the MSLT 2 trial which has been the top accruing melanoma clinical trial. She has been a mentor to one of our fellows which resulted in a poster presentation at ASCO this year.

Dr. Mark Bloomston continues to lead our GI surgical oncology program. He is the director of translational research in liver cancer and also serves as director of the surgical oncology fellowship program. He serves on the Hepatobiliary Cancer Guidelines Committee of the National Cooperative Cancer Network. He also served as a mentor to many residents and medical students over the past

few years. He has had 6 published peer reviewed publications over the past year, as well as 18 presentations, with most of these at national meetings. He has a number of current research programs, mainly clinical trials. He has also started a liver perfusion program at the James this year and has worked hard to develop the use of robotics in GI oncology surgery.

Dr. William Carson continues to be a leader in basic research as well as serving as associate director of research for the Comprehensive Cancer Center at the James Cancer Hospital. He also directs the institutional review board at the James and continues as co-director of the clinical trials office.

Dr. William Farrar continues to hold the Arthur G. and Mildred C. James and Richard J. Solove chair in surgical oncology. Breast and thyroid cancer continue to be the focus of his clinical and research activities. Dr. Farrar was recently appointed director of the Stephanie Spielman Comprehensive Breast Cancer Center that makes available all the aspects of the breast cancer diagnosis during one visit, providing mammography, ultrasound, stereotactic breast biopsy, MRI, medical oncology, plastic surgery, radiation medicine, physical therapy, and all other aspects of breast cancer care. He is a past member of the Commission on Cancer for the American College of Surgeons and continues as principal investigator for the National Surgical Adjuvant Breast and Bowel Project at the James Cancer Center. Dr. Farrar also serves on breast treatment, breast cancer prevention, and thyroid cancer guidelines committees of the National Comprehensive Cancer Network. He presently serves as medical director for credentialing for the James and also serves as director of the operating room. Dr. Farrar has been listed as a best doctor in America for 11 years.

Dr. Edward Martin is an international leader in gastrointestinal cancer and continues to evaluate many aspects of the detection of recurrent colon cancer. He has numerous published manuscripts this year, most of them dealing with the detection of recurrent colon cancer. He has numerous funded grants as well as a number of pending grants and is a member of a very large multidisciplinary team at the Ohio State University which deals with translational research for recurrent cancers. Dr. Martin continues to be a leader in teaching surgical principals to residents and fellows at the James.

Dr. John Phay continues to be an excellent clinician as well as basic researcher. He is working with a drug which was developed by Dr. Chen which potential could inhibit the growth of anaplastic thyroid cancer cells. He is also working with Dr. Michael Tweedle to develop a compound which binds to medullary thyroid cancer cells in the mouse which eventually could be used to image medullary thyroid cancer as well as parathyroid's in humans. He has also been appointed the principal investigator for the Endocrine Neoplasia Repository which is an IRB approved tissue repository and clinical information bank. He has recently been part of a program project grant with Dr. Matt Ringel. He has become very busy clinically in endocrine cancer performing thyroidectomies, parathyroidectomies as well as robotic adrenalectomies.

Dr. Stephen Povoski is a leader in innovative technique in the treatment of breast cancer. He has been working with the division of nuclear medicine to evaluate near infrared/ultrasound dual mobile imaging for breast cancer. He is co-investigator on a pilot study evaluating the combined and integrated technologic approach of 18F-FDG- directed perioperative PET/CT imaging and intraoperative handheld gamma probe detection of neuroendocrine and occult disease in patients undergoing sur-

gery for solid malignancy. He is a PI on a number of innovative clinical trials in breast cancer. He had 15 peer reviewed articles published this year as well as having his work presented at national meetings. He continues to serve on a number of editorial boards, having recently been named as editor of the World Journal of Surgical Oncology.

Dr. Carl Schmidt recently joined the division of surgical oncology after completing a fellowship in surgical oncology at Memorial Sloan-Kettering Cancer Institute in New York City. He has become a very valuable member of the division in regards to clinical work and assisting with educational opportunities for the fellows, residents and medical students. He had 6 publications this year and also mentored 4 fellows and residents which resulted in 3 oral presentations and one poster at national meetings. He is the local PI for 2 clinical trials in regards to the treatment of metastatic liver cancer. He received the department of surgery's faculty, Teacher of Year Award. He also worked with PODEMOS which is an OSU college of medicine student group providing an effort to improve health in Honduras. He spent a week in Honduras on a mission trip and was recently appointed to the board of directors. He also was appointed first surgical physician advisor at the James Cancer Hospital which oversees many aspects of patient care in the hospital. He serves as a consultant and external advisory board member for Ethicon Endo-Surgery, working on novel technology called irreversible electro procoagulation which can be used as ablation modality of polyps and may have health related applications.

Dr. Alicia Terando joined the division of surgical oncology after completing a fellowship at the John Wayne Cancer Center in California. She has special interests in breast cancer and melanoma. She has been very active in clinical trial participation as well as becoming a leader in surgical management of melanoma. She is a local PI of a multicenter clinical trial, evaluating the feasibility and safety of minimally invasive inguinal lymph node dissection in patients with melanoma. She has become a very valuable member of the division.

Dr. Lisa Yee continues as an excellent clinician and researcher in breast cancer. This year she was appointed co-director of the high risk breast clinic at the Stephanie Spielman Comprehensive Breast Cancer Center. She has worked very hard to expand our high risk clinic and is a PI on a number of research protocols related to the prevention of breast cancer. She maintains a very busy practice in breast cancer and serves as our division liaison with the medical students.

Faculty

William B. Farrar, MD

Arthur G. and Mildred C. James and Richard J. Solove Chair in Surgical Oncology; Professor of Surgery; Chief, Division of Surgical Oncology; Director, Medical Affairs, The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute; Director, The James Comprehensive Breast Center

BA: Illinois Wesleyan University, Bloomington, Il., 1971

MD: University of Virginia, Charlottesville, Va., 1975

Specialty Training: The Ohio State University, Columbus, Oh.; Memorial Sloan-Kettering Cancer Center, New York, NY

Appointment: 1982

Specialty Interests: Breast disease, thyroid disease, head and neck cancer

Research Interests: Breast cancer (high-risk breast cancer clinic, clinical studies for the adjuvant treatment of breast cancer, role of stereotactic biopsy for diagnosis, use of sestamibi in breast cancer diagnosis); thyroid cancer (role of aspiration biopsy and follicular neoplasms, extent of surgery for thyroid cancer); parathyroid disease (localization studies using sestamibi and Neoprobe)



Farrar



Abdel-Misih

Sherif R. Z. Abdel-Misih, MD

Assistant Professor of Surgery, Clinical

BA: Franklin and Marshall College, Lancaster, Pa., 1997

MMS: MCP Hahnemann University, Philadelphia, Pa., 1999

MD: Jefferson Medical College, Philadelphia, Pa., 2003

Specialty Training: General surgery residency, Cleveland Clinic Foundation, Cleveland, Ohio; Surgical oncology fellowship, The Ohio State University, Columbus, Oh.

Appointment: August 1, 2010

Specialty Interests: Gastrointestinal Malignancies, Peritoneal Surface Malignancies & Carcinomatosis, Appendiceal Cancer, Colorectal Cancer, Pancreas Cancer, Sarcoma

Research Interests: Peritoneal Surface Malignancies & Carcinomatosis, Appendiceal Cancer, Gastrointestinal Malignancies



Agnese

Doreen M. Agnese, MD

Assistant Professor of Surgery and Internal Medicine, Clinical

MD: University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School, Piscataway, NJ, 1993

Specialty Training: General surgery internship and residency, research fellowship, University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School, Piscataway, NJ; fellowship in surgical oncology and clinical cancer genetics, The Ohio State University, Columbus, Oh.

Appointment: 2004

Specialty and Research Interests: Breast cancer, melanoma, cancer genetics, all aspects of surgical oncology

Mark Bloomston, MD

Associate Professor of Surgery

BS: Florida State University, Tallahassee, FL., 1992

MD: University of South Florida, Tampa, FL., 1997

Specialty Training: Internship, residency, and research fellowship in general surgery, University of South Florida, Tampa, FL.; fellowship in surgical oncology, The Ohio State University, Columbus, Oh.

Appointment: 2006

Specialty and Research Interests: Pancreatic and alimentary tract cancers



Bloomston

William E. Carson, III, MD

Professor of Surgery

BS: University of California, Irvine, Ca., 1982

MD: University of Southern California, Los Angeles, Ca., 1986

Specialty Training: University of California, Irvine, Ca.; Roswell Park Cancer Institute, Buffalo, NY

Appointment: 1997

Specialty Interests: Breast cancer

Research Interests: The role of natural killer cells in septic shock



Carson

William G. Kraybill, MD

Professor of Surgery

BA: Earlham College, Richmond, In., 1965

MD: University of Cincinnati, Cincinnati, Oh., 1969

Specialty Training: Internship at Santa Clara Valley Medical Center, San Jose, Ca.; Residency and Fellowship at University of Oregon Health Sciences Center, Portland, Or.; Fellowship in Surgical Oncology at Memorial Sloan-Kettering Cancer Center, New York, NY

Appointed: 2009

Specialty Interests: Malignant melanoma and other aggressive skin cancers, soft tissue sarcomas

Research Interests: Clinical trials in tumors, multidisciplinary management of tumors, whole body hyperthermia



Kraybill

Edward W. Martin, Jr., MD

Professor of Surgery

BS: Ohio University, Athens, Oh., 1967

MD: Meharry Medical College, Nashville, Tn., 1972

Specialty Training: National Institutes of Health training, The Ohio State University, Columbus, Oh.; American Cancer Society Advanced Fellowship, The Ohio State University, Columbus, Oh.

Appointment: 1977

Specialty Interests: Gastrointestinal malignancies

Research Interests: Radioimmunoguided surgery, tumor markers, biologic response modifiers, liver metastatic model, dormant cancer cells, vaccines



Martin

John E. Phay, MD

Associate Professor of Surgery, Clinical

BA: Williams College, Williamstown, Ma., 1987

MD: University of California at San Francisco School of Medicine, San Francisco, Ca., 1993

Specialty Training: Resident in General Surgery, Washington University School of Medicine, St. Louis, Mo.

Appointed: July 1, 2009

Specialty Interests: Thyroid cancer, benign thyroid disease, parathyroid disease, multiple endocrine neoplasia, surgical adrenal disease (laparoscopic adrenalectomy)

Research Interests: Thyroid cancer, glucose metabolism in malignancy, parathyroid surgical imaging

Previous Appointment: Assistant Professor of Surgery, Division of Surgical Oncology and Endocrinology, Vanderbilt University, Nashville, Tenn.



Phay

Stephen P. Povoski, MD

Associate Professor of Surgery

BS: State University of New York, Buffalo, NY, 1985

MD: State University of New York Health Science Center, Syracuse, NY, 1989

Specialty Training: University of Cincinnati Medical Center, Cincinnati, Oh.; Memorial Sloan-Kettering Cancer Center, New York, NY

Appointment: 2001

Specialty Interests: Breast cancer, breast diseases

Research Interests: Sentinel lymph node mapping and biopsy for breast cancer, image-guided/minimally invasive breast biopsy, high-risk breast cancer clinic, ductal lavage



Povoski

Carl R. Schmidt, MD, MSCI

Assistant Professor of Surgery, Clinical

BS: University of Michigan, Ann Arbor, Mi., 1995

MD: University of Michigan, Ann Arbor, Mi., 1999

MS: Vanderbilt University, Nashville, Tn., 2004

Specialty Training: General surgery residency, Vanderbilt University Medical Center, Nashville, Tn.; surgical oncology fellowship, Memorial Sloan-Kettering Cancer Center, New York, NY

Appointment: 2008

Specialty Interests: Gastrointestinal and hepatobiliary malignancies

Research Interests: Novel therapeutic strategies and imaging modalities for metastatic liver tumors



Schmidt

Alicia M. Terando, MD

Assistant Professor of Surgery, Clinical

BA: University of Virginia, Charlottesville, Va., 1994

MD: Medical College of Pennsylvania, Philadelphia, Pa., 1998

Specialty Training: General surgery residency, University of Michigan, Ann Arbor, Mi.; Research fellowship, University of Michigan, Ann Arbor, Mi.; Surgical oncology fellowship, John Wayne Cancer Institute, Santa Monica, Ca.

Appointment: July 1, 2010

Specialty Interests: Surgical and multimodal immunotherapy for high-risk/metastatic melanoma

Research Interests: Tissue culture, flow cytometry, murine experimental techniques



Terando

Lisa D. Yee, MD

Associate Professor of Surgery, Clinical

BA: University of California, San Diego, Ca., 1982

MD: Yale University, New Haven, Cn., 1986

Specialty Training: Mount Sinai Medical Center, Miami, Fl.

Appointed: 1996

Specialty Interests: General surgical oncology

Research Interests: Tumor progression and metastasis



Yee

Faculty Departures

William G. Kraybill, Jr., MD

Professor of Surgery

Date of resignation: April 30, 2012

Current appointment: Retired

Resident Staff

Natalie Beckman Jones, MD, MS

PGY-8

BS: University of Virginia, Charlottesville, Va., 2000

MD: The Ohio State University, Columbus, Oh., 2004

MS: The Ohio State University, Columbus, Oh., 2010

Megan E. McNally, MD, MS

PGY-8

Combined 6 year BLA-MD: University of Missouri-Kansas City, Kansas City, Mo., 2005

MS: The Ohio State University, Columbus, Oh., 2012

Scott Albert, MD

PGY-8

BA: St. Lawrence University, Canton, NY, 2000

MD: Upstate Medical University, Syracuse, NY, 2004

Lawrence A. Shirley, MD

PGY-8

BA: Vanderbilt University, Nashville, Tn., 2000

MD: University of Kentucky, Lexington, Ky., 2004

Mission

The Division of Surgical Oncology is dedicated to the evaluation and management of cancer and to cancer research and education.

Accomplishments in Research

- Faculty members in the division published 41 articles, abstracts, and chapters.

Active Research Grants

Abdel-Misih SR. K-alpha probe for image guided minimally invasive surgery using PET tracers. Radiation Monitoring Devices, Inc., December 1, 2011 – November 30, 2015, \$ 1,314,000.

Agnese DM. A phase 3, multicenter, randomized trial of sentinel lymphadenectomy and complete lymph node dissection versus sentinel lymphadenectomy alone in cutaneous melanoma patients with molecular or histopathological evidence of metastases in the sentinel node. John Wayne Cancer Institute, June 1, 2006 – October 30, 2011, \$47,085.

Agnese DM. A phase 3, multicenter, randomized trial of sentinel lymphadenectomy and complete lymph node dissection versus sentinel lymphadenectomy alone in cutaneous melanoma patients with molecular or histopathological evidence of metastases in the sentinel node. John Wayne Cancer Institute, through January 31, 2012, \$10,785.

Agnese DM. A phase 3, multicenter, randomized trial of sentinel lymphadenectomy and complete lymph node dissection versus sentinel lymphadenectomy alone in cutaneous melanoma patients with molecular or histopathological evidence of metastases in the sentinel node. John Wayne Cancer Institute, through August 31, 2012, \$19,200.

Bloomston M. A phase 3, randomized, double-blind, placebo-controlled study of sorafenib as adjuvant treatment for hepatocellular carcinoma after surgical resection or local ablation. Covance, Inc., January 22, 2009 – December 31, 2013, \$29,773.

Bloomston M. Translational training grant in experimental therapeutics. National Institutes of Health, National Cancer Institute, September 9, 2008 – July 31, 2013, \$122,625/year.

Bloomston M. Optical coherence tomography imaging of precancerous pancreatic lesions. Pelotonia Idea Grant, September 1, 2010 – August 30, 2012, \$50,000/year.

Bloomston M. A phase II randomized, double-blind, placebo-controlled study of Sorafenib or placebo in combination with transarterial chemoembolization (TACE) preformed with DC bead and doxorubicin for intermediate stage hepatocellular carcinoma. Covance, June 24, 2009 – December 31, 2014, \$23,420.

Bloomston M. A Phase II-a, open-label, randomized study of JX-594 (thymidine kinase-deleted vaccinia virus plus GM-CSF) administered by intratumoral injection in patients with unresectable primary hepatocellular carcinoma. Jennerex Biotherapeutics, February 24, 2009 – December 31, 2013, \$73,738

Bloomston M. Molecular mechanisms of muscle wasting in cancer cachexia. National Institutes of Health, June 2009 – November 2014.

Bloomston M. MicroRNA-21 expression and function in pancreatic adenocarcinoma. National Cancer Institute, April 2009 – March 2014.

Bloomston M. Novel JAK2/STAT3 inhibitors for pancreatic cancer therapy. Research Institute at Nationwide Children's Hospital, January 2010 – December 2013.

Bloomston M. Phase II trial of selective internal radiotherapy (SIRT) using sir-spheres microspheres for metastatic neuroendocrine carcinoma. Doris Duke Charitable Fdn, August 2009 – July 2012.

Bloomston M. (ARRA-RC1) Evaluation pre and post analytical parameters on the quality of remnant surgical tissue for biomarker discovery. National Institutes of Health, October 2009 – September 2011.

Bloomston M. (ARRA) Identification of noncoding RNA biomarkers from tissue, serum and urine of patients with pancreatic precancerous lesions. National Cancer Institute, September 2009 – September 2011.

Bloomston M. MicroRNAs as predictors of (pre)malignant phenotype in cystic neoplasms of the pancreas. American Italian Cancer Foundation, September 1, 2009 – August 31, 2011, \$200,000.

Carson WE III. ADV-TK therapy in combination with surgery and chemoradiation for pancreas cancer. Advantagene, Inc., January 8, 2008 – December 31, 2012, \$28,997.

Carson WE III. Enhancement of cetuximab-induced antibody-dependent cellular cytotoxicity (ADCC) with lenalidomide in advanced solid tumors. Conquer Cancer Foundation, May 5, 2011 – June 30, 2012, \$50,000.

Carson WE III. Cetuximab therapy of pancreatic cancer: immune modulation with IL-21. National Cancer Institute, through August 2011, \$337,430.

Carson WE III. Phase 1 trial with two HER-2 B-cell epitope vaccine in patients with solid tumors. National Cancer Institute, through July 2012, \$660,000.

Carson WE III. A biobehavioral intervention for patients with breast cancer recurrence. National Cancer Institute, through February 2012, \$363,000.

Carson WE III. SOCS proteins as inhibitors of immune surveillance in the melanoma microenvironment. National Cancer Institute, through August 2012, \$453,500.

Carson WE III. Novel micro/nanofluidic electroporation devices for DNA and oligonucleotide delivery. National Biomedical Imaging and Bioengineering, through August 2011, \$383,300.

Carson WE III. Effect of IL-21 on antibody-dependent cellular toxicity mediated by an HER2/neu antibody and NK cell against breast carcinoma cells *in vitro* and *in vivo*. Zymogenetics, Inc., April 14, 2004 – July 31, 2011, \$74,600.

Carson WE III. A phase 1, open-label, dose escalation study of ANA773 tosylate, an oral prodrug of a toll-like receptor-7 agonist, in patients with advanced cancer. Anadys Pharmaceuticals, Inc., June 2, 2008 – December 31, 2012, \$65,000.

Carson WE III. Tumor immunology. National Cancer Institute, June 1, 2008 – May 31, 2013, \$224,780.

Carson WE III. Innate immunity: elucidation and modulation for cancer therapy. National Cancer Institute, September 1, 2002 – August 31, 2012.

Carson WE III. A program of immune-based treatments for cancer. National Cancer Institute, through March 2013, \$271,391.

Carson WE III. Bacterial sepsis and reactivation of latent cytomegalovirus. Nat Inst Gen Medical Scis, through May 2013, \$301,950.

Carson WE III. OSU 07033 - A pilot study of IFN-Alpha-2b dose-reduction with dose optimization in melanoma. Schering-Plough Corp., through December 31, 2011, \$65,200.

Carson WE III. A phase I study of PS-341 (bortezomib, Velcade) and interferon-alpha-2b in malignant melanoma. Millennium Pharmaceuticals, Inc., June 30, 2011 – February 24, 2012, \$99,864.

Farrar WB. The national surgical adjuvant breast and bowel project and STAR trial. NSABP Foundation, Inc., through May 2012, \$33,900.

Farrar WB. Breast and bowel treatment protocols agreement. NSABP Fdn., Inc, through January 2012, \$624,690.

Farrar WB. Breast and bowel treatment protocols agreement (continuation). NSABP Fdn., Inc, through January 2012, \$197,230.

Martin EW. K-alpha probe for image guided minimally invasive surgery using PET tracers. Radiation Monitoring Devices, Inc., December 1, 2011 – November 30, 2015, \$1,314,000.

Martin EW. An Eddy Current Method for Quantitative Determination of Resection Margins in Cancer Surgery. National Institute of Biomedical Imaging & Bioengineering, July 1, 2011 – June 30, 2016, \$2,473,674.

Martin EW. Intraoperative cancer detection probe using K-alpha fluorescence. ACTIS, LTD., April 1, 2011- September 30, 2011, \$50,000.

Phay JE. Carney Complex: A Model for PKA-mediated Tumorigenesis. NIH, July 1, 2011 – June 30, 2016, \$2,077,839.

Povoski SP. A phase 4 study to evaluate the long-term impact of identifying tumor-draining lymph nodes using lymphoseek in patients with breast cancer or melanoma. Neoprobe Corporation, through October 31, 2011, \$9,250.

Povoski SP, Shapiro C. A pilot study to evaluate mammographic density in pre- and peri-menopausal high-risk women receiving celecoxib (Celebrex®). University of Chicago CALGB, February 21, 2003 – March 4, 2012, \$73,729.

Povoski SP, Kiecolt-Glaser J. Thrive: total health: research on inflammation, vigor, and energy. NIH, S. Robert Davis endowment, the Kathryn & Gilbert Mitchell endowment, and an American Cancer Society Postdoctoral Fellowship Grant, October 22, 2007 – present.

Povoski SP. NEO3-04: A follow-up study to evaluate the long-term impact of identifying tumoe-draining lymph nodes using Lymphoseek® in patients with breast cancer or melanoma. Neoprobe Corporation, October 22, 2008 – present, \$86,814.

Schmidt CR. Bevacizumab/FOLFOX and SIRT using Yttrium-90 in colorectal liver metastasis. Emory University, April 1, 2012 – March 31, 2016, \$305,000.

Schmidt CR. Bevacizumab/FOLFOX and SIRT using Yttrium-90 in colorectal liver metastasis. Emory University, December 1, 2010 – November 30, 2013, \$228,750.

Yee, LD. Proteomic analysis of RPFNA cytology. Duke University, May 31, 2011 – March 1, 2012, \$12,600.

Yee LD. Prevention of aromatase inhibitor-induced joint symptoms with omega 3 fatty acid supplementation: a randomized placebo controlled pilot study. Brigham and Women's Hospital, Inc., through May 2012, \$114,343.

Yee LD. Proteomic analysis of RPFNA cytology. Duke University, through May 2011, \$12,600.

Yee LD. Omega 3 fatty acids and breast cancer prevention: protective benefits of increased fish consumption. National Fisheries Institute, through March 2012, \$20,962.

Yee LD. Dietary fatty acids, macrophages, and HER-2/neu-mediated mammary carcinogenesis. Army Medical Research Acquisition Activity, September 15, 2008 – September 14, 2011, \$450,000.

Clinical Programs

- Comprehensive surgical oncology service provides leadership for multimodality programs; breast, endocrine, gastrointestinal, melanoma, neuroendocrine and sarcoma.

Accomplishments in Clinical Care

- Attending faculty in the division performed 4,474 operating room procedures and received 18,299 outpatient visits.

Clinical Statistics

OR Procedures	4,879
Outpatient Visits	15,626
Admissions	1,221
Patient Days	3,938
Average Length of Stay (Days)	5.38

Educational Programs

- Two-year fellowship in surgical oncology, which includes 18 months of clinical work and six months of basic research.
- Comprehensive rotation in surgical oncology for third- and fourth-year residents in general surgery.
- Subinternship in surgical oncology.

Accomplishments in Education

- Completion of the fellowship in surgical oncology by Dr. Natalie Jones and Dr. Megan McNally.
- Dr. Scott Albert and Dr. Lawrence Shirley began surgical oncology fellowships.

Publications

Abdel-Rahman MH, Cebulla CM, Verma V, Christopher BN, **Carson WE 3rd**, Olencki T, Davidorf FH. Monosomy 3 status of uveal melanoma metastases is associated with rapidly progressive tumors and short survival. *Exp Eye Res.* 2012 Jul;100:26-31

Bronisz A, Godlewski J, Wallace JA, Merchant AS, Nowicki MO, Mathsyaraja H, Srinivasan R, Trimboli AJ, Martin CK, Li F, Yu L, Fernandez SA, Pécot T, Rosol TJ, Cory S, Hallett M, Park M, Piper MG, Marsh CB, **Yee LD**, Jimenez RE, Nuovo G, Lawler SE, Chiocca EA, Leone G, Ostrowski MC. Reprogramming of the tumour microenvironment by stromal PTEN-regulated miR-320. *Nature Cell Biology.* 2011;14(2):159-67

Caronia LM, **Phay JE**, Shah MH. Role of BRAF in Thyroid Oncogenesis. *Clin Cancer Res*. 2011 Dec 15;17(24):7511-7

Chen W, Fan-Havard P, **Yee LD**, Cao Y, Stoner GD, Chan KK, Liu Z. A liquid chromatography-tandem mass spectrometric method for quantification of curcumin-O-glucuronide and curcumin in human plasma. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2012 May 26.

Chokshi RJ, **Kuhr MP**, **Schmidt C**, **Arrese D**, Routt M, Parks L, Bahnson R, **Martin EW Jr**. Single Institution Experience Comparing Double-barreled Wet Colostomy to Ileal Conduit for Urinary and Fecal Diversion. *Urology*. 2011 October. 78(4):856-62.

Coit DG, Andtbacka R, Anker CJ, Bichakjian CK, **Carson WE 3rd**, Daud A, Dilawari RA, Dimaio D, Guild V, Halpern AC, Hodi FS Jr, Kelley MC, Khushalani NI, Kudchadkar RR, Lange JR, Lind A, Martini MC, Olszanski AJ, Pruitt SK, Ross MI, Swetter SM, Tanabe KK, Thompson JA, Trisal V, Urist MM. Melanoma. *J Natl Compr Canc Netw*. 2012;10(3):366-400

Collins AL, Rock J, **Malhotra L**, Frankel WL, **Bloomston M**. Osteopontin Expression is Associated with Improved Survival in Patients with Pancreatic Adenocarcinoma. *Ann Surg Oncol*. 2012 Mar 30

Ettinger DS, Agulnik M, Cates JM, Cristea M, Denlinger CS, Eaton KD, Fidias PM, Gierada D, Gockerman JP, Handorf CR, Iyer R, Lenzi R, **Phay J**, Rashid A, Saltz L, Shulman LN, Smerage JB, Varadhachary GR, Zager JS, Zhen WK. NCCN Clinical Practice Guidelines in Oncology. Occult primary. *J Natl Compr Canc Netw*. 2011 Dec 1;9(12):1358-95

Fagundes CP, Bennett JM, Alfano CM, Glaser R, Povoski SP, Lipari AM, **Agnese DM**, **Yee LD**, **Carson WE 3rd**, **Farrar WB**, Malarkey WB, Chen M, Kiecolt-Glaser JK. Social Support and Socioeconomic Status Interact to Predict Epstein-Barr Virus Latency in Women Awaiting Diagnosis or Newly Diagnosed With Breast Cancer. *Health Psychology* 2012 January; 31(1): 11-19

Fagundes CP, Glaser R, Alfano CM, Bennett JM, Povoski SP, Lipari AM, **Agnese DM**, **Yee LD**, **Carson WE 3rd**, **Farrar WB**, Malarkey WB, Kiecolt-Glaser JK. Fatigue and herpesvirus latency in women newly diagnosed with breast cancer. *Brain Behav Immun*. 2012 Mar;26(3):394-400

Fox BA, Schendel DJ, Butterfield LH, Aamdal S, Allison JP, Ascierto PA, Atkins MB, Bartunkova J, Bergmann L, Berinstein N, Bonorino CC, Borden E, Bramson JL, Britten CM, Cao X, **Carson WE**, Chang AE, Characiejus D, Choudhury AR, Coukos G, de Gruijl T, Dillman RO, Dolstra H, Dranoff G, Durrant LG, Finke JH, Galon J, Gollob JA, Gouttefangeas C, Grizzi F, Guida M, Håkansson L, Hege K, Herberman RB, Hodi FS, Hoos A, Huber C, Hwu P, Imai K, Jaffee EM, Janetzki S, June CH, Kalinski P, Kaufman HL, Kawakami K, Kawakami Y, Keilholtz U, Khleif SN, Kiessling R, Kotlan B, Kroemer G, Lapointe R, Levitsky HI, Lotze MT, Maccalli C, Maio M, Marschner JP, Mastrangelo MJ, Masucci G, Melero I, Melief C, Murphy WJ, Nelson B, Nicolini A, Nishimura MI, Odunsi K, Ohashi PS, O'Donnell-Tormey J, Old LJ, Ottensmeier C, Papamichail M, Parmiani G, Pawelec G, Proietti E, Qin S, Rees R, Ribas A, Ridolfi R, Ritter G, Rivoltini L, Romero PJ, Salem ML, Scheper RJ, Seliger B, Sharma P, Shiku H, Singh-Jasuja H, Song W, Straten PT, Tahara H, Tian Z, van Der Burg SH, von Hoegen P, Wang E, Welters MJ, Winter H, Withington T, Wolchok JD, Xiao W, Zitvogel L, Zwierzina H, Marincola FM, Gajewski TF, Wigginton JM, Disis ML. Defining the critical hurdles in cancer immunotherapy. *J Transl Med*. 2011 December 14. 9(1):214

Grignol V, Fairchild ET, Zimmerer JM, Lesinski GC, Walker MJ, Magro CM, Kacher JE, Karpa VI, Clark J, Nuovo G, Lehman A, Volinia S, **Agnese DM**, Croce CM, **Carson WE 3rd**. miR- 21 and miR-155 are associated with mitotic activity and lesion depth of borderline melanocytic lesions. *British Journal of Cancer* 2011 September; 105 (7): 1023-1029

Grignol VP, Olencki T, Relekar K, Taylor C, Kibler A, Kefauver C, Wei L, Walker MJ, Chen HX, Kendra K, **Carson WE 3rd**. A phase 2 trial of bevacizumab and high-dose interferon alpha 2B in metastatic melanoma. *J Immunother*. 2011 Jul-Aug. 34(6):509-15

Gregorio SW, Carpenter KM, Dorfman CS, Yang HC, Simonelli LE, **Carson WE 3rd**. Impact of breast cancer recurrence and cancer-specific stress on spouse health and immune function. *Brain Behav Immun*. 2012 Feb;26(2):228-33

Jones NB, McNally ME, Malhotra L, Abdel-Misih S, Martin EW, Bloomston M, Schmidt CR. Repeat Hepatectomy for Metastatic Colorectal Cancer Is Safe but Marginally Effective. *Ann Surg Oncol*. 2011 Dec 30

Jones NB, Shah MH, **Bloomston M**. Liver-directed therapies in patients with advanced neuroendocrine tumors. *J Natl Compr Canc Netw*. 2012 Jun 1;10(6):765-74

Jones NB, Wakely PE Jr, Klemanski DL, Al-Saif O, Young G, Frankel WL, **Martin EW**, **Bloomston M**. Cytopathologic evaluation of the in situ margin in patients undergoing hepatectomy. *Cancer Cytopathol*. 2012 May 17

Kelly KM, Shah N, Shedlosky-Shoemaker R, Porter, K, **Agnese D**. Living post treatment: definitions of those with history and no history of cancer. *J Cancer Surviv* 2011; 5(2): 155-166

Kim KB, Sosman JA, Fruehauf JP, Linette GP, Markovic SN, McDermott DF, Weber JS, Nguyen H, Cheverton P, Chen D, Peterson AC, **Carson WE 3rd**, O'Day SJ. BEAM: a randomized phase II study evaluating the activity of bevacizumab in combination with carboplatin plus paclitaxel in patients with previously untreated advanced melanoma. *J Clin Oncol*. 2012 Jan 1;30(1):34-41

Liu Z, Chiu M, Wang J, Chen W, Yen W, Fan-Havard P, **Yee LD**, Chan KK. Enhancement of curcumin oral absorption and pharmacokinetics of curcuminoids and curcumin metabolites in mice. *Cancer Chemother Pharmacol*. 2012; 69(3):679-89

Luedke E, Jaime-Ramirez AC, Bhawe N, **Carson WE 3rd**. Monoclonal antibody therapy of pancreatic cancer with cetuximab: potential for immune modulation. *J Immunother*. 2012 Jun;35(5):367-73

Lustberg MB, **Povoski SP**, Zhao W, Ziegler RM, Sugimoto Y, Ruppert AS, Lehman AM, Shields D, Mrozek E, Ramaswamy B, Layman RM, Brueggemeier RW, and Shapiro CL: Phase II Trial of Neoadjuvant Exemestane in Combination with Celecoxib in Postmenopausal Women with Breast Cancer. *Clin Breast Cancer*, 11(4): 221-227, 2011

McNally ME, Malhotra L, Bloomston M, Schmidt CR. Perioperative mortality in patients with myelodysplastic syndrome. *J Surg Oncol.* 2012 Jan 9

Martin LK, Cucci A, Wei L, Rose J, Blazer M, **Schmidt C**, Khabiri H, **Bloomston M**, Bekaii-Saab T. Yttrium-90 Radioembolization as Salvage Therapy for Colorectal Cancer With Liver Metastases. *Clin Colorectal Cancer.* 2012 Jan 23

Mayo SC, de Jong MC, **Bloomston M**, Pulitano C, Clary BM, Reddy SK, Clark Gamblin T, Celinski SA, Kooby DA, Staley CA, Stokes JB, Chu CK, Arrese D, Ferrero A, Schulick RD, Choti MA, Geschwind JF, Strub J, Bauer TW, Adams RB, Aldrighetti L, Mentha G, Capussotti L, Pawlik TM. Surgery Versus Intra-arterial Therapy for Neuroendocrine Liver Metastasis: A Multicenter International Analysis. *Ann Surg Oncol.* 2011 Dec;18(13): 3657-65

Mendel E, Mayerson JL, Nathoo N, Edgar RL, **Schmidt C**, Miller MJ. Reconstruction of the Pelvis and Lumbar-pelvic Junction using 2 Vascularized Autologous Bone Grafts after En Bloc Resection for an Iliosacral Chondrosarcoma. *J Neurosurg Spine.* 2011. 15(2):168-73

Mundy-Bosse BL, Lesinski GB, Jaime-Ramirez AC, Benninger K, Khan M, Kuppusamy P, **Guentherberg K**, Kondadasula SV, Chaudhury AR, La Perle KM, Kreiner M, Young G, Guttridge DC, **Carson WE 3rd**. Myeloid-derived suppressor cell inhibition of the IFN response in tumor-bearing mice. *Cancer Res.* 2011 Aug 1;71(15):5101-10

Paras C, Keller M, White L, **Phay J**, Mahadevan-Jansen A. Near-infrared autofluorescence for the detection of parathyroid glands. *J Biomed Opt.* June 2011. 16(6); 067012

Povoski SP, Hall NC, Murrey DA Jr, Chow AZ, Gaglani JR, Bahnson EE, Mojzisik CM, Kuhrt MP, Hitchcock CL, Knopp MV, **Martin EW Jr**. Multimodal imaging and detection approach to 18F-FDG-directed surgery for patients with known or suspected malignancies: A comprehensive description of the specific methodology utilized in a single-institution cumulative retrospective experience. *World J Surg Oncol.* 2011;9(1):152,

Povoski SP, Hall NC, Murrey DA Jr, Sharp DS, Hitchcock CL, Mojzisik CM, Bahnson EE, Knopp MV, **Martin EW Jr**, Bahnson RR. Multimodal imaging and detection strategy with 124I-labeled chimeric monoclonal antibody G250 for accurate localization and confirmation of extent of disease for both laparoscopic and open surgical resection of clear cell renal cell carcinoma. *Surg Innov.* 2012 Mar 27

Povoski SP, Hatzaras IS, Mojzisik CM, **Arnold MW**, Hinkle GH, Hitchcock CL, Young DC, and Martin EW Jr: Antigen-directed cancer surgery for primary colorectal cancer: 15-year survival analysis. *Ann Surg Oncol.* 2012;19(1):131-138

Povoski SP, Hatzaras IS, Mojzisik CM, **Martin EW Jr**. Oncologic theranostics: Recognition of this concept in antigen-directed cancer therapy for colorectal cancer with anti-TAG-72 monoclonal antibodies. *Expert Rev Mol Diagn.* 2011;11(7), 667–670

Povoski SP, Khabiri H: Persistent left superior vena cava: Review of the literature, clinical implications, and relevance of alterations in thoracic central venous anatomy as pertaining to the general principles of central venous access device placement and venography in cancer patients. *World J Surg Oncol*. 2011;9(1):173

Povoski SP, Jimenez RE, and Wang WP: Ultrasound-guided diagnostic breast biopsy methodology: Retrospective comparison of the 8-gauge vacuum-assisted biopsy approach versus the spring-loaded 14-gauge core biopsy approach. *World J Surg Oncol*. 2011;9(1):87

Rock J, **Bloomston M**, Lozanski G, Frankel WL. The spectrum of hematologic malignancies involving the pancreas: potential clinical mimics of pancreatic adenocarcinoma. *Am J Clin Pathol*. 2012 Mar;137(3):414-22

Schmidt CR, Shires P, Mootoo M. Real-time Ultrasound Imaging of Irreversible Electroporation in a Porcine Liver Model Adequately Characterizes the Zone of Cellular Necrosis. *HPB* 2012;14(2):98-102

Terando AM, **Carson WE 3rd**. Individualized local treatment strategies for in-transit melanoma. *Oncology (Williston Park)*. 2011 Dec. 25(14):1355, 1360

Varker KA, Ansel A, Aukerman G, **Carson WE 3rd**. Review of complementary and alternative medicine and selected nutraceuticals: background for a pilot study on nutrigenomic intervention in patients with advanced cancer. *Altern Ther Health Med*. 2012 Mar-Apr. 18(2):26-34

Wasserman J, Diese L, VanGundy Z, London C, **Carson WE**, Papenfuss TL. Suppression of canine myeloid cells by soluble factors from cultured canine tumor cells. *Vet Immunol Immunopathol*. 2012 Jan 15;145(1-2):420-30

Book Chapters

Povoski SP. Long-term central venous access. In *Cancer Management: A Multidisciplinary Approach. Medical, Surgical, and Radiation Oncology*. R Pazdur, LD Wagman, KA Camphausen, WJ Hoskins, (eds). CMP Medica (United Business Media), Lawrence, 14th Edition [ePub, 11/02/2011]

International Presentations

Bloomston M. MicroRNAs for Diagnosis and Prognostic Markers in Pancreatic Cancer. National Cheng Kung University, Tainan, Taiwan, October 2011

Bloomston M. MicroRNAs for Diagnosis and Prognostic Markers in Pancreatic Cancer. National Taiwan University, Taipei, Taiwan, October 2011

National Presentations

Bloomston M. Optimal Management of Metastatic Neuroendocrine Tumors. 97th Annual Clinical Congress of the American College of Surgeons Session of Complex GI Cancers, San Francisco, Ca., October 2011

Carson WE. Accrual to Clinical Trials. University of Illinois at Chicago Clinical Trials Group. Chicago, IL, September 15, 2011

Carson WE. A Program for Increasing Accrual to Clinical Trials. National Comprehensive Cancer Network Best Practices Committee Meeting. Phoenix, Az., January 26-27, 2012

Collins AL, Abdel-Misih S, I Hatzaras, P Muscarella, WS Melvin, EC Ellison, C Schmidt, M Bloomston. Splenic preservation at the Time of Distal Pancreatectomy is of Limited Clinical Benefit. Poster. American College of Surgeons 97th Annual Clinical Congress. San Francisco, Ca, October 23-27, 2011

Collins A, Wojcik MS, Frankel W, Alder H, Croce C, **Bloomston M.** A Differential MicroRNA Profile Distinguishes Cholangiocarcinoma from Pancreatic Adenocarcinoma. 97th Annual Clinical Congress of the American College of Surgeons, San Francisco, Ca., 2011

Henry JC, Pouly S, **Sullivan R,** Sharif S, Klemanski D, **Abdel-Misih S,** Arradaza N, Jarjoura D, **Schmidt C, Bloomston M.** A Scoring System To Predict Outcome In The Management Of Malignant Bowel Obstruction. 2012 Annual Meeting of the Central Surgical Association. Madison, Wi, 2012

Jones NB, Albert SP, Frankel WL, **Schmidt C, Bloomston M.** American Joint Committee on Cancer Staging Classification for Pancreatic Neuroendocrine Tumors Does Not Adequately Differentiate Outcomes Following Pancreatectomy. 65th Annual Cancer Symposium of the Society of Surgical Oncology, Orlando, FL, 2012

Jone NB, McNally ME, Malhotra L, Abdel-Misih S, Martin EW Jr., Bloomston M, Schmidt CR. Repeat Hepatectomy for Metastatic Colorectal Cancer is Safe but Marginally Effective. Society of Surgical Oncology 64th Annual Cancer Symposium(2011). Gastrointestinal Cancer Parallel Session. San Antonio, Tx., March 21-21, 2012

Jones NB, Tassone P, **Arrese D,** Klemanski D, Shah M, **Schmidt C, Bloomston M.** Expectant Management of the Asymptomatic Primary is Safe in Patients Undergoing Chemoembolization for Metastatic Neuroendocrine Carcinoma. 65th Annual Cancer Symposium of the Society of Surgical Oncology, Orlando, FL, 2012

McGough A, Hayes A, **Terando AM, Phay J,** Zhang J, **Povoski S,** Knopp MV, **Martin EW,** Hall NC. Evaluation of use of a large field-of-view (LFOV) gamma camera during intra-operative procedures (Abstract No. 2615). Presented at the Annual Meeting of the Society of Nuclear Medicine, Miami Beach, FL, June 9-13, 2012

McNally M, Abdel-Misih S, Malhotra L, Albert S, Schmidt C, Bloomston M. After Pancreatectomy, Any Rise in CA19-9 is a Harbinger of Recurrent Pancreatic Cancer and Dismal Survival. 65th Annual Cancer Symposium of the Society of Surgical Oncology, Orlando, FL., 2012

McNally M, Arrese D, Feria-Arias E, **Chokshi R**, Guy G, Khabiri H, **Schmidt C**, Shah M, **Bloomston M**. Presence Of Extra-Hepatic Disease Should Not Preclude Transarterial Chemoembolization For Metastatic Carcinoid. 7th International Symposium on Regional Cancer Therapies. Captiva, FL., 2012

McNally M, Arrese D, Feria-Arias E, Guy G, Khabiri H, Schmidt C, Shah M, Bloomston M. Survival Advantage after Transarterial Chemoembolization for Operable Metastatic Carcinoid Reflects Tumor Biology Rather than Efficacy. 7th International Symposium on Regional Cancer Therapies. Captiva, FL., 2012

McNally M, Collins A, Wojcik S, Liu J, **Henry J**, Jiang J, Schmittgen T, **Bloomston M**. Concomitant dysregulation of miR-151-3p and miR-126 correlates with improved survival in resected cholangiocarcinoma. 12th Annual Meeting of the Americas Hepato-Pancreato-Biliary Association. Miami Beach, FL., 2012

Murrey DA Jr, **Povoski SP**, Hall NC Jr, Gaglani JR, Chow AZ, Bahnson EE, Mojzisik CM, **Kuhrt MP**, Hitchcock CL, Knopp MV, **Martin EW Jr**. Multimodal approach to 18F-FDG-directed surgery: A single-institution cumulative experience (P132) . Presented at the 64th Annual Meeting of the Society of Surgical Oncology, San Antonio, Tx., March 2-5, 2011

Shirley LA, Marsh C, Walker J, Coyle W, Tahiri S, Chung V, **Bloomston M**. Phase 1 Trial of Gene Mediated Cytotoxic Immunotherapy Combined with Resection for Pancreatic Adenocarcinoma. 65th Annual Cancer Symposium of the Society of Surgical Oncology, Orlando, FL., 2012

Yee L, Rolsten S, Rengel R, Wallace J, Mohler R, Mariano A, Clinton S, Ostrowski M. Effects of dietary fatty acids on mammary macrophages in HER-2/neu-mediated mammary carcinogenesis. 103rd Annual Meeting of the American Association for Cancer Research, Chicago, IL., Apr 4, 2012

Miscellaneous Presentations

Agnese D. Breast Health, presented to Daughters of Erin, Grandview, Oh., October 9, 2011

Bloomston M. New Developments in GI Malignancies. OSU MedNet 21 CME Webcast, Columbus, Oh., October 2011

Carson WE. Immune Suppressor Cells, presented to Eastern Surgical Society, Columbus, Oh., May 11, 2012

Collins A, Wojcik S, Frankel W, Alder H, Yu L, Croce C, **Bloomston M**. A Differential MicroRNA Profile Distinguishes Cholangiocarcinoma from Pancreatic Adenocarcinoma. Allan Yates Memorial Trainee Speaker Series at the 11th Annual OSUMC Trainee Research Day. Columbus, Oh., 2012

Povoski SP. Breast Diseases, Columbus Comprehensive Review, Hyatt Regency Columbus, Columbus, Oh., September 18, 2011

Schmidt C. Minimally Invasive Upper Abdominal Surgery -The Critical Views. Surgery and Technology Meets Anatomy. Columbus, Oh., 2011

Terando A. Intraoperative Nuclear Imaging at the Ohio State University. High Country Nuclear Medicine Conference, Steamboat Springs, Co., March 6, 2012

Terando A. Intraoperative Nuclear Imaging at the Ohio State University, Central Chapter Society of Nuclear Medicine Conference, Indianapolis, In., April 15, 2012

Distinguished Visiting Professor

Douglas Evans, MD

Donald C. Ausman Family Foundation Professor of Surgery; Chairman of the Department of Surgery
The Medical College of Wisconsin, Milwaukee, Wi.

“Current Controversies in the Management of Papillary Thyroid Cancer”

November 4, 2011

Division of Thoracic Surgery



Thoracic Surgery



Patrick Ross, Jr., MD, PhD
Chief, Division of Thoracic Surgery

The Division of Thoracic Surgery has had a successful year on all fronts. We have added depth to our clinical programs by incorporating robotic assisted surgery to our minimally invasive platform. OSU Thoracic Surgery is emerging as a leader in robotics. Multidisciplinary programs are our core value. We have strengthened our existing multidisciplinary teams in Thoracic Oncology and are adding novel therapies for mesothelioma to the list; we are implementing new programs in tracheal reconstruction and diaphragmatic pacing. We maintain strong collaborative relationships within the Lung and Gastrointestinal Disease sites at The James. These relationships promote new trial development as well as accrual to existing trials. Our multidisciplinary approach allows us to offer a differentiated product to patients pursuing thoracic oncology care at The James.

We have had additional growth in our program in photodynamic medicine, which is internationally recognized. Ohio State hosted a multidisciplinary symposium on photodynamic medicine in May 2012. Physicians and scientists from Asia, Europe and North America participated in a two day workshop. Several new research and clinical collaborations have already been formed.

Our Joint Commission certified Lung Volume Reduction Surgery program excels because of its interdisciplinary structure. We are developing a program for tracheal surgery and reconstruction which may include tissue engineering in the future.

The faculty have had a productive year with respect to scholarship. Our academic achievements reflect collaborations around the medical center with multiple teams. John Wilson, PhD, who has trained in cancer epidemiology, has been instrumental in moving our outcomes studies forward. The faculty has published 8 peer reviewed articles. We have presented at local, regional, national, and international symposia. The research interests range from clinical outcome studies in lung and esophageal cancer to basic science mechanisms such as mechanism of action for PDT and studies in T-cell regula-

tion. Our research efforts have consistently included residents and medical students on the team; many of these trainees have participated in the presentations and publications.

The Division of Thoracic Surgery has exceeded its goals this year. We look forward to continued growth and success in our clinical and academic missions next year.

Faculty

Patrick Ross, Jr., MD, PhD

Professor of Clinical Surgery; Chief, Division of Thoracic Surgery

AB: Harvard University, Cambridge, Ma., 1977

MD, PhD: St. Louis University, St. Louis, Mo., 1983

Specialty Training: University of Pennsylvania, Philadelphia, Pa.

Appointment: 1991

Specialty Interests: Thoracic surgical oncology, lung volume reduction, end stage lung disease

Research Interests: New modality lung cancer therapy, photodynamic therapy



Ross

Vincent C. Daniel, MD

Assistant Professor- Clinical

BA: Vanderbilt University, Nashville, Tn., 1994

MD: University of Tennessee College of Medicine, Knoxville, Tn., 2001

Specialty Training: Internship and residency in general surgery, The Johns Hopkins Hospital, Baltimore, Md., 2001-2008; fellowship in thoracic surgery, Massachusetts General Hospital, Boston, Ma., Mayo Clinic, Rochester, Mn., and Memorial Sloan-Kettering Cancer Center, New York, NY, 2008-2010

Appointment: January 1, 2011

Specialty Interests: Lung cancer, esophageal cancer, tracheal surgery, mediastinal tumors, esophageal motility disorders, minimally invasive thoracic surgery

Research Interests: Molecular markers of lung and esophageal cancer, clinical trials for lung and esophageal cancer, animal models of lung cancer



Daniel

Edmund S. Kassis, MD

Assistant Professor of Surgery

BS: University of Pittsburgh, Pittsburgh, Pa., 1992

MD: University of Pittsburgh, Pittsburgh, Pa., 1999

Specialty Training: Internship and residency in general surgery, The Johns Hopkins Hospital, Baltimore, Md., 1999-2007; fellowship in surgical oncology, Surgery Branch, National Cancer Institute, Bethesda, Md., 2001-2004; fellowship in thoracic surgery, M.D. Anderson Cancer Center, Houston, Tx., 2007-2009

Appointment: July 1, 2009

Specialty Interests: Thoracic surgical oncology, lung cancer, esophageal cancer, mediastinal masses, minimally invasive thoracic surgery.

Research Interests: Thoracic oncology, translational research in lung and esophageal cancer, molecular genetics, staging.



Kassis

Susan D. Moffatt-Bruce, MD, PhD

Chief Quality and Patient Safety Officer, Medical Staff Administration
Associate Professor of Surgery
Associate Professor, School of Biomedical Science - Molecular Virology,
Immunology and Medical Genetics
BA: McGill University, Montreal, Quebec, Canada, 1990
MD: Dalhousie University, Halifax, Nova Scotia, Canada, 1994
PhD: University of Cambridge, Cambridge, United Kingdom, 1999
Specialty Training: Residency in general surgery, Dalhousie University,
Halifax, Nova Scotia, Canada; fellowship in cardiothoracic surgery,
Stanford University, Palo Alto, Ca.

Appointment: 2006

Specialty Interests: Lung transplant, heart transplant, transplant out-
comes, thoracic oncology

Research Interests: Transplant immunology



Moffatt-Bruce



Wilson

John Wilson, PhD

Research Assistant Professor

BS: East Tennessee State University, Johnson City, Tn., 1970

MS: State University of New York at Buffalo, Buffalo, NY, 1976

PhD: State University of New York at Buffalo, Roswell Park Cancer
Institute Graduate Division, Buffalo, NY, 1981

Appointment: April 1, 2011

Research Interests: Assessing outcomes and cost effectiveness of cancer
therapy, primary methodologic interest is in assessing patients' prefer-
ences for use in treatment and policy decision-making

Faculty Departures

Sampath Parthasarathy, PhD, MBA, FAHA

The Karl P. Klaasen Chair; Professor of Surgery; Director of Research, Divisions of Cardiac and Thoracic
Surgery; Professor, Human Nutrition; Professor, Endocrinology, Diabetes and Metabolism; Professor of
Internal Medicine

Date of resignation: November 1, 2011

Current appointment: Florida Hospital Chair in Cardiovascular Science and Associate Director for
Research, University of Central Florida College of Medicine, Burnett School of Biomedical Sciences,
Orlando, Fl.

Emeritus Faculty

J. Terrance Davis, MD

Professor Emeritus of Clinical Surgery

BA: Williams College, Williamstown, Ma., 1963

MD: University of Pennsylvania, Philadelphia, Pa., 1967

Gerard S. Kakos, MD

Clinical Associate Professor Emeritus of Surgery

BA: The Ohio State University, Columbus, Oh., 1964

MD: The Ohio State University, Columbus, Oh., 1967

James W. Kilman, MD

Professor Emeritus of Surgery

BS: Indiana State University, Terre Haute, In., 1956

MD: Indiana State University, Indianapolis, In., 1960

Charles V. Meckstroth, MD

Professor Emeritus of Surgery

BA: The Ohio State University, Columbus, Oh., 1944

MD: The Ohio State University, Columbus, Oh., 1947

MMSc (Surgery): The Ohio State University, Columbus, Oh., 1950

Howard D. Sirak, MD

Professor Emeritus of Surgery

AB: University of Pennsylvania, Philadelphia, Pa., 1943

MD: The Ohio State University, Columbus, Oh., 1947

MMSc (Surgery): The Ohio State University, Columbus, Oh., 1953

Resident Staff

Dana Booth, MD

PGY-7

BS: University of California, San Diego, San Diego, Ca., 1997

MS: University of California, San Diego, San Diego, Ca., 1999

MD: Medical College of Wisconsin, Milwaukee, Wi., 2003

Daniel Cozadd, DO

PGY-6

BS: Illinois State University, Normal Il., 2011

MD: Lake Erie College of Osteopathic Medicine, Erie, Pa., 2005

Karen Nelson, DO

PGY-7

BS: Mercer University, Macon, Ga., 1997**BA:** University of Kentucky, Lexington, Ky., 2000**DO:** Lake Erie College of Osteopathic Medicine, Erie, Pa., 2005**Jennifer Worth, MD**

PGY-6

BS: DePauw University, Green Castle, In., 1999**MD:** Drexel University, Philadelphia, Pa., 2005

Mission

The Division of Thoracic Surgery is dedicated to developing and applying multidisciplinary care for malignant and benign diseases of the chest.

Research Programs

- PDT Outcomes Registry.
- Immunobiology of photodynamic therapy in Lung Cancer Patients.
- A Novel Approach to Generate Regulatory T Cells using CD103 Depletion.
- A Prospective Multi-Center Randomized Clinical Study to Evaluate the PleuraSeal Sealant System as an Adjunct to Standard Closure Techniques for Control of Visceral Pleural Air Leaks Following Elective Pulmonary Resection Via Open Thoracotomy.
- Autofluorescence Bronchoscopy.
- Case Analysis on real Life Incidence of PDT Safety Outcomes: Multicentre, observational postmarketing safety surveillance registry of patients exposed to photodynamic therapy with porfimer sodium: The CALIPSO Registry.
- Comparative Mutational Profiling as the Standard of Care in Assessing Lung Lesions.
- Mechanisms of Bronchiolitis Obliterans in Pediatric and Adult Lung Transplants.

- Multicenter, prospective, open-label, single-arm phase IIb/IV clinical study on the safety of photodynamic therapy with porfimer sodium for injection for the ablation of high-grade dysplasia in Barrett's esophagus: OEDISSE.
- Neuropathy after Lung Transplantation.
- Pilot Study Assessing Robotic Video Assisted Thoracic Surgery (RATS) Versus Standard Thoracotomy for Malignant Lesions.
- Role of macrophages in cardiac transplantation.

Accomplishments in Research

- Dr. Patrick Ross, Jr., Dr. John Wilson and the Division of Thoracic Surgery hosted the inaugural International Photodynamic Medicine Symposium on May 11-12, 2012 in Columbus, Ohio. This was an exciting and collaborative exchange of ideas by a diverse group of experts coming together to discuss the most recent and relevant advances in our understanding of photodynamic therapy. The keynote speaker was Harubumi Kato, M.D., Ph.D., Professor in the Department of Surgery at Tokyo Medical University. Dr. Kato presented "Our Experience of PDD and PDT of Lung Cancer". We believe this workshop forum will stimulate future research collaboration and clinical trials.

Active Research Grants

Janssen PM, Carnes CA, Davis JP, Elton, Terry S, Gyorke S, Periasamy M, Rafael-Fortney JA, Sun B, Ziolo MT. Inst (ARRA) Electrical and mechanical behavior of live human myocardium in health and disease. American Heart Association - Great Rivers Affiliate, September 30, 2009 – August 31, 2012, \$25,000

Kassis E. Correlation of Stage-Specific MicroRNA Profile with Pathologic Stage, Recurrence and Survival in Patients with Resected Non-Small Cell Lung Cancer". The Ohio State University Research Investment Fund, 2009 – Present, \$200,000

Moffatt-Bruce S. The Role of Macrophages in Acute Cellular Rejection in Cardiac Transplant, K12 Scholars Award 2009–2011, \$196,000/year

Moffatt-Bruce S. The Role of T Cells and Macrophages in Acute Cardiac Rejection. American Heart Association, July 1, 2010 – June 30, 2012 \$60,500

Moffatt-Bruce S. The Role of Macrophages in Acute Cellular Rejection.” NIH/TSFRE, 2010 – 2015, \$150,000

Moffatt-Bruce S. The Role of T Regulatory Cells and Regulatory Cells in Acute Cellular Rejection.” American Heart Association, July 2010 – July 2012, \$170,000

Kissel JT, **Ross P.** Thymectomy in non-thymomatous MG patients on prednisone. University of Alabama - Birmingham, September 30, 2010 – July 31, 2012

Clinical Programs

- Adult thoracic surgery
- Electromagnetic bronchoscopy
- Endobronchial ultrasound
- Lung volume reduction surgery
- Photodynamic therapy
- Robotic surgery
- Thoracic oncology multidisciplinary clinic
- Tracheal reconstruction

Accomplishments in Clinical Care

- Thoracic Surgery reignited the Robotic Surgery program. When compared to traditional open surgery, robotic surgery benefits patients because of lower rate of complications, less blood loss, shorter hospital stays, less pain and faster return to normal quality of life.
- Dr. Ross and Dr. Villalona hosted the Thoracic Oncology Retreat on August 16, 2011. The retreat brought together all aspects of thoracic oncology including Thoracic Surgery, Radiology, Pathology, Thoracic Oncology, Pulmonary Medicine, Anesthesia, the James operating room, the James inpatient floor team, the outpatient clinic team and the administrative teams. The goals of the retreat were to strengthen the teamwork of faculty and staff, to position patient care at the center of all work and interactions and to identify strategies for becoming a high performing organization with the desired outcome of increasing patient satisfaction.

Clinical Statistics

OR Procedures	1,423
Outpatient Visits	2,121
Admissions	1,363
Patient Days	3,018
Average Length of Stay (Days)	4.76

Educational Programs

- Two-year cardiothoracic surgery fellowship accredited by the Accreditation Council for Graduate Medical Education.
- Comprehensive rotation in thoracic surgery for first- and third-year residents in general surgery.
- Summer Scholars is an eight week program that gives first year medical students exposure to the field of Cardiothoracic Surgery.

Accomplishments in Education

- Completion of the cardiothoracic surgery fellowship by Dr. Dana Booth in June 2011.
- The Thoracic Surgery faculty taught chest tube placement to Advanced Topics in Emergency Medicine (ATEM) students. ATEM is an honors elective in Emergency Medicine for fourth year medical students.

Community Outreach Programs

- Lung Cancer Screenings at the James Cancer Hospital began on May 21, 2012. Although incidence rates for lung cancer are declining, it continues to be the largest cause of cancer-related deaths among both men and women in the U.S. Early detection of lung cancer through CT screening has been proven to significantly reduce lung cancer deaths. The James now provides lung cancer screenings to those at high risk of developing lung cancer, including current smokers with a significant smoking history and ex-smokers that have quit within the past 15 years.
- Thoracic Oncology Team for Pelotonia: a grassroots bike tour with one goal: to end cancer. 100% of all funds raised by Pelotonia directly support cancer research conducted at the Comprehensive Cancer Center and James Cancer Hospital/Solove Research Institute (OSUCCC-James) at The Ohio State University.

Accomplishments in Community Outreach

- PBS featured Photodynamic Therapy at The Ohio State University on their television series, Healthy Body, Healthy Mind. Dr. Patrick Ross and Dr. John Wilson along with other members of the PDT team discussed the benefits of photodynamic therapy for lung cancer and esophageal cancer. In addition, 10TV aired “When a Cough is Not a Cough”, an interview with Dr. Ross about lung cancer. Lung cancer is the chief cause of cancer deaths for both men and women.
- The Division of Thoracic Surgery has become a Thoracic Epicenter for Robotic Surgery. This means that the OSU Wexner Medical Center and the James Cancer Hospital have been designated as training facilities. Physicians from throughout the United States will come to The Ohio State University to observe robotic thoracic surgery.
- The first ever “Top Doc Cooking Challenge” was held on March 1, 2012 at The Ohio State University Student Union. The event features four Ohio State University cancer experts each paired up with a chef from The Ohio State University Medical Center to create a unique dish using a basket of ingredients that may help prevent cancer. Dr. Steven Clinton, Dr. Michael Caligiuri, Dr. Patrick Ross and Dr. Charles Shapiro along with their chef created meals made with cancer fighting superfoods such as tomatoes, soy bread, cruciferous vegetables and various berries. All of these superfoods are being studied by Ohio State cancer researchers for their potential to prevent cancer. A panel of local celebrities judged each meal. They selected Dr. Ross’ team as the winners and his team received a “Culinary Oscar”!

Awards and Achievements

Dr. Moffatt-Bruce was accepted as a fellow in the 2012-2013 Class of the Hedwig van Ameringer Executive Leadership in Academic Medicine (ELAM) Program for Women. ELAM is a program of the Drexel University College of Medicine and offers an intensive one-year program of leadership training with extensive coaching, networking and mentoring opportunities. The goal of the program is to expand the national pool of qualified women candidates for leadership in academic medicine, dentistry and public health.

Publications

Carrillo SA, Daniel VC, Hall N, Hitchcock CL, Ross Patrick, Kassis ES. Fusion PET/CT underestimates the presence of hilar nodal metastases in patients with resected non-small cell lung cancer. *Ann Thorac Surg* 2012 May;93(5):1621-4.

Haubert LM, Way D, DePhilip R, Tam M, Bishop J, Jones K, Moffatt-Bruce SD. Surgeons as medical school educators: an untapped resource. *Anat Sci Educ* 2011 Jul-Aug;4(4):182-9.

Kassis ES, Bansal S, Perrino C, Walker JP, Hitchcock C, Ross P Jr, Daniel VC. Giant asymptomatic primary esophageal schwannoma. *Ann Thorac Surg* 2012 Apr;93(4):e81-3.

Kirby S, Satoskar A, Brodsky S, Pope-Harman A, Nunley D, Hitchcock C, Pelletire R, Ross P, Nadasdy T, Shilo K. Histological spectrum of pulmonary manifestations in kidney transplant recipients on sirolimus inclusive immunosuppressive regimens. *Diagnostic Pathology*, 2012 March;7:25.

Mallett R, Conroy M, Saslaw LZ, Moffatt-Bruce S. Preventing wrong site, procedure, and patient events using a common cause analysis. *Am J Med Qual* 2012 Jan-Feb;27(1):21-9. [Epub 2011 Aug 10]

Moffatt-Bruce SD, Ellison EC, Anderson HL 3rd, Chan L, Balija TM, Bernescu I, Cipolla J, Marchigiani R, Seamon MJ, Cook CH, Steinberg SM, Stawicki SP. Intravascular retained surgical items: A multicenter study of risk factors. OPUS 12 Foundation, Inc. Multi-Center Trials Group. *J Surg Res* 2012 Mar 15.

Shah Z, Kampfrath T, Deiuliis JA, Zhong J, Pineda C, Ying Z, Xu X, Lu B, Moffatt-Bruce S, Durairaj R, Sun Q, Mihai G, Maiseyeu A, Rajagopalan S. Long-term dipeptidyl-peptidase 4 inhibition reduces atherosclerosis and inflammation via effects on monocyte recruitment and chemotaxis. *Circulation*. 2011 Nov 22;124(21):2338-49. [Epub 2011 Oct 17]

Shah Z, Pineda C, Kampfrath T, Maiseyeu A, Ying Z, Racoma I, Deiuliis J, Xu X, Sun Q, Moffatt-Bruce S, Villamena F, Rajagopalan S. Acute DPP-4 inhibition modulates vascular tone through GLP-1 independent pathways. *Vascul Pharmacol* 2011 Jul-Sep;55(1-3):2-9. [Epub 2011 Mar 10]

Abstracts

Begue A, Grimmer R, Askew T, Cutler E, Ross P. Retrospective Study of Multidisciplinary Rounding on a Thoracic Oncology Unit. Oncology Nursing Society 37th Annual Congress, New Orleans, La., May 4-5, 2012.

Ross P, Moffatt-Bruce S, Hendershot M, Kassis E, Maxey K, Wilson J. Photodynamic therapy for NSCLC: A single institution 12 year review. 14th World Conference on Lung Cancer, Amsterdam, The Netherlands, July 3-7, 2011.

Wilson J. Cancer Registry Partnership with the NCCN Oncology Outcomes Database Project: An Arranged Marriage but Not Love at First Sight. National Cancer Registrars Association 38th Annual Educational Conference, Washington, DC, April 18-21, 2012.

International Presentations

Moffatt-Bruce SD. Quality in Nursing and Medical Care Teams. 5th Annual National Nurses Quality Conference, Shanghai, China, November 2011.

National Presentations

Moffatt-Bruce SD, Ellison C, Anderson H, Balija T, Bernescu I, Cipolla J, Seamon M, Cook C, Steinberg S, Stawicki SP. Intravascular Retained Surgical Items: A Multi-Center Study of Risk Factors. Academic Surgical Congress Annual Meeting, Las Vegas, Nv., Feb 16, 2012.

Moffatt-Bruce SD. How to Measure Team Training. UHC Joint Council, Chicago, Il., April 18-20, 2012.

Ross P. Surgical Management of Neuroendocrine Tumors. North American Neuroendocrine Tumor Society, Minneapolis, Mn., October 21, 2011.

Ross P. Pulmonary NETs Session Chair. North American Neuroendocrine Tumor Society, Minneapolis, Mn., October 21, 2011.

Miscellaneous Presentations

Ross P. Application of Minimally Invasive Techniques to Thoracic Surgery. Surgery and Technology Meet Anatomy, The Ohio State University Medical Center, Columbus, Oh., July 16, 2011.

Ross P. Esophageal Cancer Update. Genesis HealthCare System Prospective Cancer Conference, Zanesville, Oh., December 15, 2011.

Ross P. Lung Volume Reduction Surgery: Surgical Considerations. 2012 Pulmonary Rehabilitation Conference: Making Leaps Toward Improving Quality of Life. The Wexner Medical Center at The Ohio State University, Columbus, Oh., February 29, 2012.

Ross P. Surgical Update on Esophageal Cancer. Southern Ohio Medical Center, Portsmouth, Oh., March 2, 2012.

Ross P. Minimally Invasive Surgery for Non-Small Cell Lung Cancer. Columbus Chapter of the Oncology Nursing Society, Columbus, Oh., April 27, 2012.

Ross P. PDT for Airway Malignancies. The Ohio State University Comprehensive Cancer Center, James Cancer Hospital and Solove Research Institute, Columbus, Oh., May 11, 2012.

Ross P. Minimally Invasive Thoracic Surgery. The Ohio State University Department of Surgery Grand Rounds, Columbus, Oh., May 31, 2012.

Distinguished Visiting Professors

Harubumi Kato, MD, PhD

Professor in the Department of Surgery at Tokyo Medical University, Tokyo, Japan. Dr. Kato presented “Our Experience of PDD and PDT of Lung Cancer” at the International Photodynamic Medicine Symposium at The Ohio State University Comprehensive Cancer Center on May 11, 2012. Dr. Kato is an internationally renowned scientist and global leader in the study of photodynamic therapy. In 1978, he was the first person in the world to clinically apply photodynamic therapy to the treatment of lung cancer.

Robert Cerfolio, MD

Chief of the Section of Thoracic Surgery, J.H. Estes Family Endowed Chair for Lung Cancer Research at the University of Alabama at Birmingham, Birmingham, Alabama. Dr. Cerfolio presented “Future of Thoracic Surgery” at The Ohio State University Comprehensive Cancer Center Grand Rounds on April 6, 2012. Dr. Cerfolio is an internationally renowned surgeon and clinical researcher. He is recognized as a leader in research on improvements in surgical and pharmacological treatments for lung cancer and on the implementation of robotic techniques for thoracic surgery.

Division of Transplantation



Transplantation



Mitchell L. Henry, MD
Chief, Division of Transplantation

The Division of Transplantation continues to combine a busy clinical transplant program with a diverse and productive research effort. Within the Comprehensive Transplant Center (CTC), the division has embarked on a number of collaborative, interdisciplinary endeavors to enhance both the clinical activities and the basic research efforts in transplantation at The Ohio State University Medical Center. The CTC's team of specialists are pursuing areas of common interest in transplantation, including immunopharmacology, immune assessment and monitoring, immune engineering, information systems, biostatistics, clinical trials, public policy and ethical considerations, and communications and public relations.

Dr. Ginny Bumgardner continued her research in hepatocyte and islet transplant murine models, and continues to investigate novel mechanisms regulating post-transplant humoral alloimmunity under her National Institute of Allergy and Infectious Diseases/National Institutes of Health (NIAID/NIH) grant. Gregg Hadley, PhD, professor of surgery, deputy director of research in the Comprehensive Transplant Center, continued his research examining transplant rejection and graft-versus-host pathology and the development of strategies for therapeutic intervention in these processes. Dr. Hadley also serves on the faculty of the newly established Center for Regenerative Medicine and Cell Based Therapies. Dr. Ronald Pelletier continued his work on antibody modulated allograft rejection and immune tolerance.

Clinically, the volume of kidney and pancreas transplantation remains high, exceeding previous years, buoyed by a strong living-donor program. Under the guidance of Dr. Amer Rajab, Ohio State is one of about a dozen medical centers in the country with a team in place to perform auto-islet transplants that improve the quality of life for people with diabetes. The successful procedure represents the culmination of more than seven years of research. Dr. Rajab also continues a funded investigation to test the theory of encapsulating islets to prevent rejection post-transplantation. The division continues to conduct clinical trials examining new and innovative immunosuppressive regimens in the post-transplant patient.

In September 2011 surgeons at The Ohio State University Medical Center performed the largest living organ chain transplantation in Ohio. A total of 12 people, 6 donors and 6 recipients, participated in an unprecedented six-way kidney transplant. The transplantations were carried out over two days by five surgeons and their teams, led by Dr. Ronald Pelletier, associate professor of surgery, Division of Transplantation.

Dr. Mitchell Henry completed his year as President of the ASTS and will now serve as Immediate Past President of the society. During the past year, under Dr. Henry's leadership, the ASTS successfully worked with the Center for Disease Control to address the issue of transmission of infectious disease in organ transplantation. In addition, the ASTS developed a partnership with the American College of Surgeons for SCORE evaluations. The ASTS is a non-profit organization, committed to fostering and advancing the practice and science of transplantation for the benefit of patients and society. Prior to becoming President, Dr. Henry served four years as a councilor-at-large and chaired several committees. He also served as the medical director of Lifeline of Ohio Organ Procurement Agency. Dr. Mitchell L. Henry, chief of the Division of Transplantation, deputy director of the Comprehensive Transplant Center and professor of surgery, was elected as the 38th president of the American Society of Transplant Surgeons (ASTS). The ASTS is a non-profit organization, committed to fostering and advancing the practice and science of transplantation for the benefit of patients and society. Prior to becoming President, Dr. Henry served four years as a councilor-at-large and chaired several committees. He also serves as the medical director of Lifeline of Ohio Organ Procurement Agency.

Members of the division faculty continue to participate in national organizations, including the American Society of Transplant Surgeons (ASTS), the United Network for Organ Sharing (UNOS), and the Vascular Access Society of the Americas (VASA). Dr. Ginny Bumgardner serves on the board of directors of the American Association for the Study of Liver Diseases (AASLD). Dr. Elmahdi A. Elkhammas, professor of clinical surgery, continues his activism in the cause of improving healthcare in his native country of Libya. Dr. Elkhammas is the founder and editor-in-chief of the *Ibnosina Journal of Medicine and Biomedical Sciences*, a peer review journal with the mission to train the next generation the peer review process and to provide researchers from developing countries with a venue for mentorship to enhance their manuscripts. Jeff Sneddon, senior systems consultant, continues to revise and refine TransChart, a unique, integrated patient information system. The TransChart system has been adopted by several other U.S. transplant centers. Dr. Ronald Ferguson, professor of surgery emeritus and department chief from 1993 to 1999, was presented the ASTS Pioneer Award. The award is the highest honor bestowed by the American Society of Transplant Surgeons. It is presented annually to recognize an individual for their important leadership in transplantation or who has made a sentinel contribution to the field. Dr. Kenneth Andreoni accepted a faculty appointment with the University of Florida. We wish him a fond farewell and thank him for his service to Ohio State. The Division recently recruited Dr. Sylvester Black as assistant professor of surgery. Dr. Black specializes in liver transplantation, surgical management of liver disease, and normothermic preservation of liver tissue. His appointment began July 2012.

In June 2012, Dr. Rachel Forbes, previously a general surgery resident at Vanderbilt University in Nashville, Tennessee, completed the fellowship in transplantation, and began a surgical critical care fellowship at Ohio State. We look forward to Dr. Forbes joining the faculty in 2013 following the completion of her fellowship. In June 2012 Dr. Jamison Foster began a two-year transplant fellowship and Dr. Hammam Momani began a one-year transplant fellowship.

Faculty

Mitchell L. Henry, MD

Professor of Surgery; Chief, Division of Transplantation; Deputy Director of Surgical Services, Comprehensive Transplant Center

BS: University of Nebraska, Lincoln, Ne., 1976

MD: University of Nebraska, Omaha, Ne., 1979

Specialty Training: The Ohio State University, Columbus, Oh.

Appointment: 1985

Specialty Interests: Transplantation, immunosuppression

Research Interests: Pancreatic transplantation, xenotransplantation



Henry

Kenneth A. Andreoni, MD

Associate Professor of Surgery; Director, Liver Transplantation

BS: Georgetown University, Washington, DC, 1984

MD: Yale University, New Haven, Ct., 1988

Specialty Training: Johns Hopkins University Hospital, Baltimore, Md.;

The Ohio State University, Columbus, Oh.

Appointment: 2008

Specialty Interests: Liver transplantation

Research Interests: New anti-rejection drugs, antibody-mediated injury to liver, kidney grafts



Andreoni

Ginny L. Bumgardner, MD, PhD

Professor of Surgery; Associate Dean for Research Education, College of Medicine; Director, Master of Medical Science Program

BS: College of William and Mary, Williamsburg, Va., 1979

MD: University of Virginia, Charlottesville, Va., 1983

PhD: University of Minnesota, Minneapolis, Mn., 1994

Specialty Training: University of Minnesota, Minneapolis, Mn.; University of California at San Francisco, Ca.

Appointment: 1993

Specialty Interests: Transplantation, immunosuppression, post-transplant pregnancy, liver disease and transplantation

Research Interests: Transplantation immunology, liver immunobiology, cellular transplantation



Bumgardner

Elizabeth Ann Davies, MD, MBA

Clinical Assistant Professor of Surgery

BS: University of Akron, Akron, Oh., 1979

MD: Northeastern Ohio Universities, Rootstown, Oh., 1983

MBA: Benedictine University, Chicago, Il., 2011

Specialty Training: The Ohio State University, Columbus, Oh.

Appointment: 1993

Specialty Interests: Transplantation, immunosuppression

Research Interests: Transplantation, organ procurement



Davies

Elmahdi A. Elkhmmas, MD

Professor of Clinical Surgery

MD: Gar-Younis University, Benghazi, Libya, 1977

Specialty Training: The Ohio State University, Columbus, Oh.

Appointment: 1991

Specialty Interests: Transplantation, immunosuppression

Research Interests: Liver transplantation, urologic complications



Elkhmmas

Gregg A. Hadley, PhD

Professor of Surgery; Deputy Director of Research, Comprehensive Transplant Center

BS: Purdue University, West Lafayette, In., 1975

MS: University of Iowa, Iowa City, Ia, 1979

PhD: University of Minnesota, Minneapolis, Mn., 1986

Specialty Training: Washington University School of Medicine, St. Louis, Mo.

Appointment: 2006

Specialty Interests: Transplant immunology

Research Interests: Mechanisms of organ transplant rejection and graft-versus-host disease



Hadley

Ronald P. Pelletier, MD

Associate Professor of Surgery; Director, Kidney Transplantation

BS: Trinity College, Hartford, Ct., 1979

MD: University of Cincinnati, Cincinnati, Oh., 1987

Specialty Training: The Ohio State University, Columbus, Oh.

Appointment: 1996

Specialty Interests: Pre- and post-transplant immune status monitoring

Research Interests: Pathophysiology of chronic rejection



Pelletier

Amer Rajab, MD, PhD

Associate Professor of Surgery; Director, Pancreas and Islet Transplantation

MD: Damascus University, Damascus, Syria, 1983

PhD: Lund University, Lund, Sweden, 1991

Specialty Training: University of Texas Southwestern Medical Center, Dallas, Tx.

Appointment: 2001

Specialty Interests: Organ transplantation

Research Interests: Islet transplantation



Rajab

Emeritus Faculty

Ronald M. Ferguson, MD, PhD

Professor Emeritus of Surgery

BS: Augsburg College, Minneapolis, Mn., 1967

MD: Washington University, St. Louis, Mo., 1971

PhD: University of Minnesota, Minneapolis, Mn., 1982

Fellows

Rachel C. Forbes, MD

Transplantation Fellow/Clinical Instructor of Surgery

MD: Vanderbilt University, Nashville Tn., 2005

Sunil Kumar, MD

Transplantation Fellow/Clinical Instructor of Surgery

MD: All India Institute of Medical Sciences (AIIMS), New Delhi, India, 1998

Rotating Resident Staff

Deepa Halaharvi, D.O.

PGY-4, Doctors Hospital

Seth Noland, M.D.

PGY-3, Mt. Carmel Health System

Ryan Barnes, D.O.

PGY-3, Mt. Carmel Health System

Ben Radcliffe, M.D.

PGY-3, Riverside Methodist Hospital

Dustin Petersen, M.D.

PGY-3, Riverside Methodist Hospital

John Kogoy, M.D.

PGY-3, Mt. Carmel Health System

Nathan Polite, D.O.

PGY-4, Doctors Hospital

Dan Leberer, M.D.

PGY-3, Riverside Methodist Hospital

Mission

The Division of Transplantation is dedicated to building upon a solid foundation of basic, translational, and clinical research in order to define and develop the next generation of high-quality, comprehensive, cost-effective transplant programs.

Research Programs

- Transplant rejection
- Allograft acceptance and transplant tolerance
- Novel immunologic strategies for islet cell transplantation
- Cellular transplantation
- New immunosuppressive compounds

Accomplishments in Research

- **Dr. Ronald Pelletier** continues the division's investigations into the immunobiology of graft acceptance and the role of alloantibodies in allograft pathobiology. Our recent studies addressing transplantation tolerance suggest that allograft acceptance may evolve through a series of mechanisms involving TGFb and foxP3 regulatory cells. These mechanisms are associated with donor-reactive alloantibodies and pathology within the grafts, and do not lead to true transplantation tolerance, despite the ability to accept donor matched skin allografts. Our ongoing studies of the role of alloantibodies in transplantation reveal that alloantibodies are not necessarily directed at MHC molecules, but are also directed at tissue associated and tissue-specific molecules. Using new experimental assays for alloantibody detection, our studies have further revealed that some, but not all, of these antibodies are complement-fixing. Investigational studies focusing on humoral allograft rejection in an animal model are designed to carefully characterize the acute inflammatory events leading to Ab-mediated graft damage. We hope to define stages in the process that offer opportunities for therapeutic intervention to ameliorate graft damage.
- **Translational Research in Immunologic Recognition and Post-transplant Outcomes.** Dr. Ronald Pelletier continues his translational research (basic, tissue typing, and clinical) investigating the relationship between cellular and humoral donor-specific immunologic recognition and post-transplant outcomes. Efforts are now under way to foster living donor/recipient pair exchanges to enable increasing numbers of patients to obtain a lifesaving kidney transplant. Additionally, methods for removing circulating alloantibodies in sensitized recipients to permit safe organ transplantation continue to be investigated.
- **Transplantation Immunobiology.** Dr. Ginny Bumgardner continues her investigations in transplant immunobiology, using experimental models of pancreatic islet and hepatocyte (liver cell) transplantation. Dr. Bumgardner's lab-based research focuses on basic mechanisms of alloimmune mediated hepatocyte injury. She introduced the functional hepatocyte transplantation model using transgenic hepatocytes to study the in vivo immunobiology of allogeneic hepatocellular

transplantation in 1998. Published work demonstrates that allogeneic hepatocytes are vulnerable to cell-mediated as well as alloantibody mediated parenchymal cell damage. Her studies using this model in comparison to genetically matched islet transplant and heart transplant have demonstrated the importance of tissue (parenchymal cell type) in determining the phenotype and effector mechanisms comprising alloimmune responses after transplantation. Work from her lab has demonstrated that allogeneic liver parenchymal cells stimulate the maturation of CD4-independent and CD4-dependent allospecific CD8⁺ cytolytic effectors (allo-CTLs). This pathway is important, because it can cause transplant tissue damage, either early or late after transplant, and interferes with the induction of transplantation tolerance. These CTL subsets are distinct in magnitude of in vivo cytotoxic effector function, CD8⁺ T cell recall responses in vivo, molecular effector mechanisms which mediate cytotoxicity. Furthermore, these two pathways are differentially susceptible to conventional and experimental immunosuppressive agents. Dr. Bumgardner's laboratory was the first to report the efficacy of a novel immunosuppressive strategy that successfully suppresses this immunoresistant (CD4-independent) CD8⁺ T cell mediated immune pathway and promotes long-term allograft survival. Very little is known regarding how CD8⁺ T cells cause immune damage of allografts and in vivo effector functions of alloreactive CD8⁺ T cells is a specific focus for investigation. Dr. Bumgardner's lab is also investigating CD4-dependent humoral immune pathways of allograft damage. Her lab is the first to show that alloantibodies also mediate immune damage of transplanted hepatocytes by a macrophage-dependent, complement-independent, NK-independent cytotoxic effector mechanism. Studies are ongoing to investigate novel mechanisms governing the regulation of posttransplant alloantibody production in an animal model and to investigate translational aspects of these studies in humans. These and other projects have been funded by external sponsors, such as the American Diabetes Association, the Roche Organ Transplant Research Foundation, the American Society of Transplant Surgeons, the American Society of Transplantation and the National Institutes of Health. In fact, this year Dr. Bumgardner was awarded a new NIH grant (R01 AI083456) this year to support studies investigating "Novel mechanisms regulating posttransplant humoral alloimmunity".

Active Research Grants

Elkhammas EA, Bumgardner GL, Ferguson RM, Henry ML, Pelletier RP, Rajab A. Conversion from calcineurin inhibitor treatment to sirolimus treatment vs. continued calcineurin inhibitor treatment in liver allograft recipients undergoing maintenance therapy. Wyeth-Ayerst Research, September 19, 2002 – January 31, 2012, \$60,118.

Elkhammas EA, Ferguson RM, Pelletier RP, Henry ML, Bumgardner GL, Rajab A. Conversion from calcineurin inhibitor treatment to sirolimus treatment versus continued calcineurin inhibitor treatment in liver allograft recipients undergoing maintenance therapy. Wyeth-Ayerst Research, September 19, 2002 – January 31, 2012, \$298,260.

Moffatt-Bruce SD, Hadley GA, Sen CK. The role of T cells and macrophages in cardiac transplant rejection. National Heart, Lung, and Blood Inst. August 2010 – June 2015, \$5,994.

Nori US. A randomized, open-label, multicenter, parallel-group study of Belatacept-based Corticosteroid-free regimens in renal transplant. Bristol-Myers Squibb Co. June 2007 – December 2013, \$59,124.

Nori US. A randomized, open-label, multicenter, parallel-group study of Belatacept-based Corticosteroid-free regimens in renal transplant. Bristol-Myers Squibb Co. June 2007 – December 2013, \$22,108.

Nori US. A randomized, open-label, multicenter, parallel-group study of Belatacept-based Corticosteroid-free regimens in renal transplant. Bristol-Myers Squibb Co. June 2007 – December 2013, \$10,519.

Pelletier RP. Acute humoral rejection of renal allografts. Cleveland Clinic Foundation, July 1, 2007 – June 30, 2012, \$183,938.

Rajab A, Ferguson RM, Henry ML, Pelletier RP. Rapid four day steroid withdrawal with thymoglobulin induction and maintenance immunosuppression with sirolimus and mycophenolate in primary cadaveric renal transplantation. December 2005 – January 2013, \$32,859.

Rajab A. Collaborative islet transplant registry, March 2009 – March 2013, \$11,500

Clinical Programs

- Pre-transplant
- Post-transplant and transplant wellness. The program currently sees more than 2,000 patients
- Living donor kidney transplantation
- Kidney transplantation
- Islet transplantation
- Liver transplant
- Pancreas transplant
- Vascular access
- Recovery of the deceased donor

Accomplishments in Clinical Care

The number of transplants performed by the Division continues to increase, and outcomes remain successful. The Ohio State transplant program continues to reflect volumes that place it among the leaders within international and national transplant centers.

- **Kidney Transplant Program.** This year, a dedicated effort by the pre-transplant coordinators, the transplant surgeons, and the nephrologists resulted in 92 living donor kidney transplants. In addition, 107 deceased donor kidney transplants were performed.
- **Six pancreas transplants were performed:** two solitary pancreas, one pancreas subsequent to a kidney/pancreas transplant and three sequential pancreas transplants, which benefit those patients who, suffering from end-stage renal disease secondary to diabetes, have already undergone a successful kidney transplant.
- **32 combined kidney/pancreas transplants were performed this year,** allowing the recipients to be cured of both diseases by a single transplant procedure. This is an increase of ten kidney/pancreas transplants over last year's total of 22.
- **Liver Transplant Program.** During the year, 26 liver transplants were performed, which is an increase of eight transplants from last year, as well as two liver/kidney transplants.
- **Pediatric transplant program.** As Director of Pediatric Transplantation, Dr. Rajab continues to enhance the transplant program at Nationwide Children's Hospital. Eight kidney transplants were performed during the past year. In addition, utilizing the expertise gained over the many years of the Ohio State program, Dr. Rajab has implemented successful immunosuppressive regimens in his pediatric patients.

Clinical Statistics

OR Procedures	1,991
Outpatient Visits	3,134
Admissions	851
Patient Days	5,490
Average Length of Stay (Days)	6.28

Educational Programs

- Two-year fellowship in solid organ transplantation. The program is accredited by the American Society of Transplant Surgeons.
- Rotations for general surgery residents during their intern and PGY-3 years.
- Rotation for surgery residents from the Mount Carmel Hospital System, Riverside Methodist Hospital, and Doctors Hospital. The rotation provides the clinical transplant experience required by the American Board of Surgery.
- Biopsy Conference. The weekly conference reviews renal transplant biopsies and liver transplant biopsies, in conjunction with the pathologists and nephrology physicians.
- Transplant Education Conference. The weekly conference, led by Dr. Elkhammas, centers around topics pertinent to the broad field of transplantation. The fellows and residents have the opportunity to lead and participate in discussions, while at the same time developing and refining their presentation skills.
- A one month Observership Program during which an international visitor comes to The Ohio State University Medical Center to observe in transplant surgery. The purpose of our international visiting scholar appointment is to allow international medical students, graduates and faculty who are not part of a formal training program at The Ohio State University Medical Center, to observe OSU faculty members, residents, or interns for a predetermined period of time. The goal is to introduce international visiting scholars to the fields of transplant surgery, patient care, research and teaching.

Accomplishments in Education

- The 2012 American Transplant Congress (ATC), was held during June 2-6, 2012, in Boston, Massachusetts. This joint meeting between the American Society of Transplant Surgeons (ASTS) and the American Society of Transplantation (AST) is the foremost educational event in the field of basic and clinical transplantation. At this year's meeting, as well as chairing plenary sessions and presenting orally, the combined efforts of the surgeons and Dr. Hadley resulted in fourteen abstracts being accepted for the event.

During the event, Dr. Henry completed his year as President of the ASTS and will now serve as Immediate Past President of the society. During the past year, under Dr. Henry's leadership, the ASTS successfully worked with the CDC to address the issue of transmission of infectious disease in organ transplantation. In addition, the ASTS developed a partnership with the American College of Surgeons for SCORE evaluations.

A highlight of this year's meeting was the awarding of the ASTS Pioneer Award to Ronald M. Ferguson, M.D., PhD. The ASTS Pioneer Award is the highest honor bestowed by the American Society of Transplant Surgeons. It is presented annually to an individual who the Society deems to recognize for their important leadership in transplantation or who has made a sentinel contribution to the field.

Further, transplant surgeons from OSU were appointed to ASTS committees for the next year: Dr. Pelletier will serve as co-chair of the By-laws committee, and Drs. Elkhmmas and Rajab will serve on the Fellowship and Cell Transplant committees, respectively.

- Dr. Henry, who is President of the Vascular Access Society of the Americas (VASA), served as a faculty member at the Vascular Access for Hemodialysis XIV Symposium, held May 8-12, 2012 in Orlando, Florida. The program promoted excellence in the care of the patients who require hemodialysis – including placement of optimal access, maintenance and prolongation of access patency.
- Dr. Ginny Bumgardner serves as a member of the MSTP Executive Committee, which addresses MSTP policies and administrative issues. Dr. Bumgardner is a faculty member for the Integrated Biomedical Sciences Graduate Program.
- Dr. Bumgardner is the Associate Dean for Research Education in the College of Medicine. She participates as a member of the OSU Clinical and Translational Science (CCTS) Community of Research Education.
- Dr. Bumgardner is the Director of the COM's Masters of Medical Science Program.
- Dr. Bumgardner is the co-Director of the Ohio State University Howard Hughes Medical Institute (HHMI) Med into Grad Program.
- Dr. Bumgardner oversees the COM Medical Student Research Program and serves as faculty advisor to the OSU Landacre Honor Society.
- Dr. Elizabeth Davies received an MBA degree from Benedictine University in December, 2011.
- Dr. Sunil Kumar joined the transplant team as the junior fellow in the ASTS-approved fellowship training program.
- Dr. Rachel Forbes completed the two-year fellowship in abdominal organ transplantation, and has accepted the fellowship in Surgical Critical Care at Ohio State.
- The National Transplant Surgery Fellowship curriculum, developed by the American Society of Transplant Surgeons, continued to expand over the last year. The Curriculum defines the key areas of knowledge necessary for mastery of the field of transplantation surgery. A recent decision to offer the curriculum free of charge to all general surgery residents in the United States

will allow access to the ASTS Academic Universe's over 200 learning modules and may further cultivate interest in this challenging specialty.

Community Outreach Programs

- **Transplantation.** Outreach to community and referring physicians continues to be a priority within the Division. Dr. Andreoni's lectures to hepatologists on the role of liver transplantation in end stage liver disease patients, especially those with hepatocellular cancer, seeks to increase awareness of Ohio State's liver transplant program as a treatment modality for these patients. In addition, Dr. Rajab is speaking to local nephrologists and endocrinologists to help educate these colleagues in the medical community regarding treatment options for patients with diabetes or kidney failure.
- **TransChart.** An Internet-based electronic medical record for post-transplant patients and healthcare professionals managing their care, TransChart facilitates better communication and patient outcomes. The use of Transchart by outlying nephrologists is increasing, as its browser-based application for reviewing medical records and charting directly into the record is invaluable in managing patient care.

Accomplishments in Community Outreach

Faculty members in the division continue to occupy positions of importance within the community of transplantation professionals. The faculty members and their positions are:

Kenneth A. Andreoni, MD

- President-elect, United Network for Organ Sharing (UNOS)
- Chair, Kidney Committee, (UNOS)
- Member, Subcommittee on National Kidney Paired Donation, UNOS
- Co-Chair, Subcommittee on Liver-Kidney Allocation, UNOS
- Chair, Kidney Subcommittee reviewing SRTR Kidney Transplant Metrics, UNOS
- Member, Public Policy Committee, American Society of Transplantation
- Medical Advisory Board, Lifeline of Ohio Organ Procurement Agency
- Ex-Officio Chair, Kidney Committee, United Network for Organ Sharing (UNOS)
- Chair, Subcommittee on National Kidney Paired Donation, UNOS

Ginny L. Bumgardner, MD, PhD

- Chair, ASTS Awards Committee, American Society of Transplant Surgeons. This committee develops award guidelines and develops new awards for consideration of funding by the ASTS Council. The ASTS Awards committee reviews ASTS research applications annually and awards approximately \$500,000 to \$750,000 annually.

- Member, NIH NIAID AIRTC, an NIH study section which reviews training grants and individual research fellowship and career development awards.
- Member, Graduate Research Education and Training (GREAT), a national organization which fosters the exchange of information and ideas among the faculty and administrative leaders of biomedical PhD, MD-PhD and postdoctoral programs. GREAT also sponsors annual conferences on issues of importance in research education.
- Co-Chair OSU Clinical Center for Translational Science (CCTS) Research Education Resources and Special Programs committee. This committee has organized CCTS T1 workshop series designed to connect basic scientists and clinicians working in related areas with the intent of forging new research collaborations.
- Member, American Association for the Study of Liver Diseases (AASLD) Governing Board.
- Executive member, American Transplant Congress 2013 Planning Committee.

Elizabeth Ann Davies, MD

- Chair-Elect, Executive Committee, Organ Donor Research Consortium

Elmahdi A. Elkhammas, MD

- Chair, Executive Committee; Deputy Editor, Libyan Journal of Medicine
- Chair, Board of Directors, Ibnosina Medical Association
- Member, Executive Committee on Health Reform in Libya
- Board Member, African Center for the Prevention of Infectious Diseases, Tripoli, Libya

Gregg A. Hadley, PhD

- Member, Scientific Advisory Committee, Roche Organ Transplantation Research Foundation
- Associate Editor, American Journal of Transplantation
- Editorial Board, Transplantation

Mitchell L. Henry, MD

- President, American Society of Transplant Surgeons (ASTS)
- Member, Executive Committee, ASTS
- Chair, Program Specific Reports Task Force, ASTS
- Chair, Philanthropy Committee, ASTS
- Chair, Nominations Committee, ASTS
- Member, Reimbursement Committee, ASTS
- Member, American Journal of Transplantation Management Committee, ASTS
- Senior Advisor, Scientific Studies Committee, ASTS
- Member, Joint Council, American Society of Transplantation/American Society of Transplant Surgeons
- President, Vascular Access Society of the Americas
- Medical Director, Lifeline of Ohio Organ Procurement Organization

Ronald P. Pelletier, MD

- Assistant Medical Director, Lifeline of Ohio Organ Procurement Organization

Publications

Andreoni KA, Kozlowski, Tomasz. Complement component 4d immunohistochemistry in the assessment of liver allograft biopsy samples: Applications and pitfalls. *Liver Transplantation*. 2011; Vol. 17, No. 11: 366-1367.

Andreoni, KA. No Strings Attached: Good Intentions and Unintended Consequences in Promoting Kidney Donation. *American Journal of Kidney Diseases*. 2011; Vol. 1, No. 58: A20-22.

Kozlowski T, **Andreoni KA**, Schmitz J, Hayashi PH, Nickleit V. Sinusoidal C4d deposits in liver allografts indicate an antibody mediated response: Diagnostic considerations in the evaluation of liver allografts. *Liver Transpl*. 2012 Jun; 18(6):641-58.

Elkhammas EA. Towards an Efficient Healthcare Policy: Observations from My Notebook on Healthcare Services in Libya. *The Tripoli Post*. Issue 362, March 10-16, 2012.

Elkhammas EA. Opinion: Social networking: An Emerging Venue for Libyan Healthcare Professionals. *The Tripoli Post*. Issue 362, March 10-16, 2012.

Henry ML. Commentary. Kidney Allocation Proposal. *Surgery News*. 2011 Aug; 7(8); 27.

Henry ML. Surgical Revision of AV Graft Stenosis is the Best Approach. *J Vasc Access*. 2011; 12(3); S24-S25.

Henry ML. Improved Patency with Heparin Bonded e-PTFE Grafts. *J Vasc Access* 2011; 12(3); S25-S26.

Ing SW, Sinnott LT, Donepudi S, **Davies EA**, **Pelletier RP**, Lane NE. Change in bone mineral density at one year following glucocorticoid withdrawal kidney transplant recipients. *Clinical Transplant*. 2011; Vol. 2, No. 25: 113-123.

Buss J; Essig E; Osei K; **Rajab A**. Steroid-free maintenance of islet allografts using mycophenolate mofetil and cyclosporine in the non-human primate. *Annals of Transplantation*. 2011; Vol. 16, No. 2: 88-97.

Visiting Professorships

Elkhammas EA. Visiting Professor. Seminar, Kidney Transplant at Ohio State University, Tripoli Central Hospital, Tripoli, Libya, February 19, 2012.

Elkhammas EA. Visiting Professor, Transplant Rounds and seminars, Tripoli Central Hospital, Tripoli, Libya, February 20, 2012.

Elkhammas EA. Visiting Professor. Seminar, Hepatitis, Zawia School, Zawia, Libya, February 29, 2012.

International Presentations

Henry ML. Vascular Access Controversies, AVF Maturation Debate, Against the Motion: Large Centres Do Better. Vascular and Endovascular Controversies Update, Imperial College, London, England, April 16, 2012.

Henry ML. Chair, Early Cannulation Session. Vascular and Endovascular Controversies Update, Imperial College, London, England, April 17, 2012.

Henry ML. What Should Be the Standard Training Scheme in Vascular Access in the United States? Vascular and Endovascular Controversies Update, Imperial College, London, England, April 17, 2012.

National Presentations

Andreoni KA. Status of the proposal to maximize kidney transplantation currently under UNOS review. CORE MOTTEP Second Annual Kountz/Callender/Rappaport Multicultural Transplantation Symposium, entitled "Transplantation Disparities: Current Trends and Future Prospects", Pittsburgh, Pa., September 14, 2011.

Andreoni KA. The UNOS SLK Proposal. 2011 Acute Dialysis Quality Initiative Conference: Simultaneous Liver-Kidney Transplant Summit, Los Angeles, Ca., October 23, 2011.

Andreoni KA. Managing the kidney transplant wait list with emphasis on bariatric surgery. ASN 44th Annual Meeting, Clinical Nephrology Conference, Philadelphia, Pa., November 12, 2011.

Andreoni KA. The History and Evolution of the Kidney Organ Allocation System. National Kidney Foundation Spring Clinical Meeting, Washington, DC, May 10, 2012.

Andreoni K, Elkhammas E, Rajab A, Pelletier R, Bumgardner G, Forbes R, Singh N, VonVisger J, Pesavento T, **Davies E,** Nori U, **Henry M.** Influence of BMI and Age on Simultaneous Kidney-Pancreas Recipients. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Hanto RL, **Andreoni KA,** Friedewald JJ, Sleeman EF, Monstello CB, Stewart DE. The Organ Procurement and Transplant Network Kidney Paired Donation Pilot Program: Review of Current Results. Oral presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Lee R-A, Deshmukh N, Deyo J, **Andreoni KA,** Kozlowski T. Can Obese Kidney Transplant Candidates Effectively Use Wait List Time to Improve BMI? - Experience of Southeastern Center. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Martin S, Winters H, Delahunty A, Lustberg M, Davis J, **Andreoni KA**. Pre-Transplant Vancomycin-Resistant Enterococcus (VRE) Colonization in Liver Transplantation (LT). Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Von Visger J, Singh N, MacAleese R, **Pelletier RP**, Nori U, Pesavento TE, **Andreoni KA**, Winters H, Nadasdy T, Brodsky S, Satoskar A, **Forbes R**. Response to Therapy and Predictors of Graft Survival in Antibody Mediated Rejection. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Bumgardner, GL. Crash course on Genomics- and How it Can Benefit Your Patients and Your Career. AASLD Genomics Signature Program, The Liver Meeting 2011, San Francisco, Ca., November 5, 2011.

Bumgardner, GL. Introduced Allan Kirk MD PhD as Speaker for Thomas E. Starzl Transplant Surgery State-of-the-Art Lecture. Tolerance and Memory. The Liver Meeting 2011, San Francisco, Ca., November 6, 2011.

Bumgardner, GL. Moderator, Here Comes the Sun: Shepherding the Future Leaders in Transplant Surgery. ASTS 12th Annual State of the Art Winter Symposium Pre-meeting, Miami, Fl., January 12, 2012.

Bumgardner, GL. Soapbox session, It's Gonna Be a Bright, Bright Sunshiny Day: How to Restore the Luster. ASTS Annual State of the Art Winter Symposium, Miami, Fl., January 13, 2012.

Bumgardner, GL. Chair and speaker, ASTS Awards Committee Lunch and Learn: Grant Writing Workshop. ASTS Annual State of the Art Winter Symposium, Miami, Fl., January 13, 2012.

Pham, T.A., Zimmerer, J.M., Sanders, V.M., **Bumgardner, GL**. Cytotoxic CD8+ T Cells Utilize FasL and Perforin to Downregulate Post-Transplant Alloantibody Production. Quick Shot Presentation at the 7th Annual Academic Surgical Congress, Las Vegas, Nv., February 14-16, 2012.

Bumgardner, GL. ASTS Awards Presentation, Joint Plenary Session II, Chair. American Transplant Congress 2012, Boston, Ma., June 4, 2012.

Bumgardner, GL. Concurrent Session Co-moderator: In the Pipeline: Next Generation Therapeutics. American Transplant Congress 2012, Boston, Ma., June 4, 2012.

Zimmerer JM, Pham TA, Sanders VM, and **Bumgardner GL**. Alloprimed CD8+ T cells Eliminate Alloprimed IgG1-Producing B Cells through Perforin- and FasL-Dependent Mechanisms. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Zimmerer JM, Liu L, Pham TA, **Bumgardner GL**. Macrophage Mediated Alloantibody-Dependent Hepatocytotoxicity is FcγRI, FcγRIII, and Contact-Dependent. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Forbes R, Henry ML, Rajab A, Pelletier RP. Pulsatile Preservation Parameters in ECD and SCD Donor Kidneys. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Anthony B, Hamadani M, Gaughan A, Wang JJ, **Hadley G.** CD 103 Expression is Required for Accumulation of CD8 T Cells in Epithelial Compartments but is Dispensable for Anti-Tumor Immunity. Oral Presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Casal P, Singh N, Wen X, Nicholson T, Theiss A, Brillson L, Lu W, Wang Y, **Hadley G, Pelletier RP,** Lee S. Application of ImmunoFET Technology to Detection of Proteins in Tissues and Fluids. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Adin C, Oglesbee M, Papenfuss T, Hai T, London C, Zmuda E, Bobek D, Moffatt-Bruce S, Xu F, **Hadley G.** Bilirubin, an Endogenous Antioxidant, Prevents Islet Cell Death, Suppresses Damage Associate Molecular Pattern (DAMP) Release and Favors a Tolerogenic DC Response in Vitro. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Henry ML. ASTS Today. ASTS Leadership Development Program, Chicago, Il., September 11, 2011.

Henry ML. Individual Biases of a Single Transplant Center. Methodist Transplant Center & Surgery Grand Rounds, The Methodist Hospital System, Houston, Tx., September 14, 2011.

Henry ML. Panelist, Pancreas Case Discussions. 5th Annual Surgical Fellows Symposium, Tucson, Az., September 19, 2011.

Henry ML. ASTS President's Message. 5th Annual Surgical Fellows Symposium, Tucson, Az., September 20, 2011.

Henry ML, Facilitator, Fellows Round Table. 5th Annual Surgical Fellows Symposium, Tucson, Az., September 20, 2011.

Henry ML. Surgical Revision of AV Graft Stenosis is the Best Approach. 8th Annual Controversies in Dialysis Access (CiDA), Washington DC, October 10, 2011.

Henry ML, Panelist, Experts Face-off: Selecting the "Best" Access. 8th Annual Controversies in Dialysis Access (CiDA), Washington DC, October 10, 2011.

Henry ML. Panelist, Video Case Presentation: Technique and Judgment in AV Access Procedures. 8th Annual Controversies in Dialysis Access (CiDA), Washington DC, October 10, 2011.

Henry ML. Panelist, It's Access Academic: Revenge of the Nerds. 8th Annual Controversies in Dialysis Access (CiDA), Washington DC, October 10, 2011.

Henry ML. Panelist, The Surgeons. 8th Annual Controversies in Dialysis Access (CiDA), Washington DC, October 10, 2011.

Henry ML. Improved Patency with Heparin-bonded e-PTFE Grafts. 8th Annual Controversies in Dialysis Access (CiDA), Washington DC, October 11, 2011.

Henry ML. Panelist, Panel Discussion: Progress in AV Access Surgery. 8th Annual Controversies in Dialysis Access (CiDA), Washington DC, October 11, 2011.

Henry ML. Moderator, Hemodialysis Access, Part 2. 38th VEITHsymposium, Vascular and Endovascular Issues, Techniques & Horizons, New York, NY, November 16, 2011.

Henry ML. Hemodialysis Access in the Patient with Lupus, Hemodialysis Access, Part 2. 38th VEITHsymposium, Vascular and Endovascular Issues, Techniques & Horizons, New York, NY, November 16, 2011.

Henry ML. Technique for Forearm AV Graft Placement, Hemodialysis Access, Part 2. 38th VEITHsymposium, Vascular and Endovascular Issues, Techniques & Horizons, New York, NY, November 16, 2011.

Henry ML. Pancreas Transplantation as Treatment for Uncontrolled Diabetes. 2nd Annual George P. Noon Conference: The Management of Organ Failure: Chronic Liver, Heart and Lung Diseases, Houston Tx., December 3, 2011.

Henry ML. Keynote Address, Who Cut the Cheese? ASTS 12th Annual State of the Art Winter Symposium, Miami, FL, January 13, 2012.

Henry ML. Soapbox session, It's Gonna Be a Bright, Bright Sunshiny Day: How to Restore the Luster. ASTS 12th Annual State of the Art Winter Symposium, Miami, FL, January 13, 2012.

Henry ML. Moderator: Surgical Challenges, Creative Solutions; Plenary Session: What's Hot, What's New. ASTS 12th Annual State of the Art Winter Symposium, Miami, FL, January 13, 2012.

Henry ML. War Stories: The Most Challenging Problem I Ever Had and How I Solved It. ASTS 12th Annual State of the Art Winter Symposium, Miami, FL, January 15, 2012.

Henry ML. Moderator, Solid Organ presentations. Advances in Minimally Invasive Surgery 2012, Marco Island, FL, February 24, 2012.

Henry ML. Solid Organ: NASH: What is it and Who Cares? Advances in Minimally Invasive Surgery 2012, Marco Island, FL, February 24, 2012.

Henry ML. Complications: Management of Patients with Cirrhosis. Advances in Minimally Invasive Surgery 2012, Marco Island, FL, February 25, 2012.

Henry ML. Moderator, Faculty presentations. Vascular Access for Hemodialysis XIII Symposium, Orlando, FL, May 11, 2012.

Henry ML. Moderator, Scientific Abstract Presentations. Vascular Access for Hemodialysis XIII Symposium, Orlando, FL., May 11, 2012.

Henry ML. Presidential Address. Vascular Access for Hemodialysis XIII Symposium, Orlando, FL., May 11, 2012.

Henry ML. Final Comments/Q & A. Vascular Access for Hemodialysis XIII Symposium, Orlando, FL., May 11, 2012.

Henry ML. Moderator, Plenary Session and Recognition Awards, 2012 American Transplant Congress, Boston, Ma., June 3, 2012.

Henry ML. Presidential address: If They Keep Score, I Want to Win. 2012 American Transplant Congress, Boston, Ma., June 4, 2012.

Henry ML. Plenary session speaker: What I Love about Transplant Surgery. 2012 American Transplant Congress, Boston, Ma., June 4, 2012.

Henry ML. Moderator, Plenary Session and Awards Presentations. 2012 American Transplant Congress, Boston, Ma., June 4, 2012.

Pelletier RP, Rajab A, Henry ML. Reduced Graft Survival in African-American Kidney Recipients Correlates with *De Novo* Alloantibody Production and Not Acute Rejection. Oral Presentation, The American Transplant Congress 2012, Boston, Ma., June 5, 2012.

Pelletier RP, Rajab A, Bumgardner GL, Henry ML. Rapamycin Treatment is Associated with Reduced Death and Graft Loss after Kidney Transplantation. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Hulbert A, Delahunty A, **Rajab A, Forbes R,** Winters H. Sirolimus Use in Obese Kidney Transplant Recipients Does Not Increase Wound Healing Complications. Poster presentation, The American Transplant Congress 2012, Boston, Ma., June 2-6, 2012.

Miscellaneous Presentations

Bumgardner GL. Medical Student Research Program Orientation, Research Opportunities. The Ohio State University, Columbus, Oh., August 10, 2011.

Bumgardner GL. OSUWMC Trainee Research Day Celebration 2012. The Ohio State University, Columbus, Oh., April 19, 2012.

Bumgardner GL. Medical Student Research Program Presentation to College Assembly. The Ohio State University, Columbus, Oh., May 16, 2012.

Bumgardner GL. Medical Student Research Program Summer Orientation, Research Opportunities, The Ohio State University, Columbus, Oh., May 24, 2012.

Davies EA. Management of the Multi-Organ Donor: The Role of Donor Management Goals. Lifeline of Ohio Organ Procurement Conference, Columbus, Oh., October 11, 2011.

Davies EA. Management of the Multi-Organ Donor: The Role of Donor Management Goals. Mt Carmel West Critical Care Grand Rounds, Columbus, Oh., November 9, 2011.

Davies EA. Brain Death. Grand Rounds: Medical Management. Adena Regional Medical Center, Chillicothe, Oh., March 30, 2012.

Davies EA. Wet Lab. Human Donation Science Program, University of Toledo, Toledo, Oh., April 11, 2012.

Davies EA. Overview of the Multi-organ Donor: the role of donor management goals. Trauma Rounds, St Rita's Medical Center, Lima, Oh., June 26, 2012.

Rajab A. Transplantation in the Treatment of Diabetes. Scioto County Medical Society Grand Rounds, Southern Ohio Medical Center, Portsmouth, Oh., November 4, 2011.

Rajab A. When is a Pancreas Transplant an Option for Diabetes? Ross Nursing Grand Rounds, The Ohio State University Medical Center, Columbus, Oh., February 9, 2012.

Kenzig A, Vrabelova D, Xu F, Buss J, **Rajab A**, Adin C. Evaluation of a High Yield Technique for Pancreatic Islet Isolation from Dog Cadavers. Research Day, The Ohio State University Wexner Medical Center, The Ohio State University, Columbus, Oh., April 19, 2012.

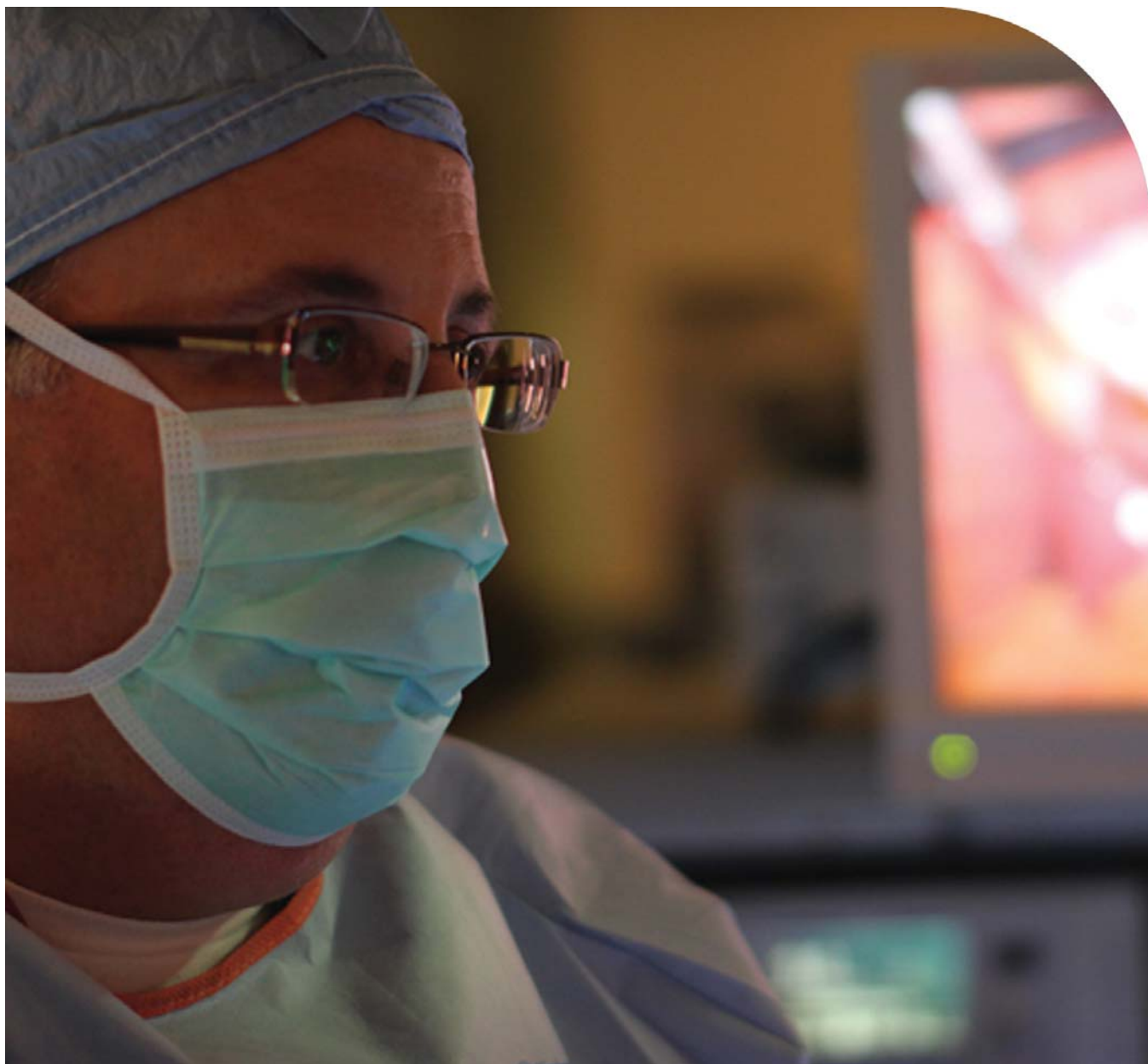
Rajab A. Islet Transplantation, The Case for Encapsulation. The Charles G. Orosz Memorial Lecture, The Ohio State University, Columbus, Oh., May 9, 2012.

Distinguished Visiting Professor

Kenneth A. Newell, MD, PhD

Professor of Surgery, Emory University, Atlanta, Georgia, The Charles G. Orosz Memorial Lecture, "Tolerance: Decades of Progress and Miles to Go", May 9, 2012.

Division of Trauma, Critical Care, and Burn



Trauma, Critical Care, and Burn



Steven M. Steinberg, MD

Chief, Division of Trauma, Critical Care, and Burn

The Division of Trauma, Critical Care, and Burn was formed in March, 2006 with the charge of enhancing the Department of Surgery's programs in surgical critical care, trauma, burns and emergency general surgery and developing an acute care surgery program. This last year has seen continued growth in both faculty and also clinical volume and scholarly activity.

This year, the division recruited one new faculty member: Larry M. Jones, MD. Dr. Jones, associate professor of clinical surgery, joined our faculty in July 2011. He was recruited to be the new director of OSU Medical Center's Burn Center. Dr. Jones was most recently the medical director of the Burn Center at The Western Pennsylvania Hospital. He is an Advanced Burn Life Support national faculty member of the American Burn Association and he is state faculty for Advanced Trauma Life Support of the American College of Surgeons Committee on Trauma. He is an invited reviewer for the *Journal of Burn Care and Rehabilitation*. He is a frequent invited speaker on topics related to the care of burn patients. He is a graduate of Indiana University School of Medicine and completed his residency in surgery at Miami Valley Hospital in Dayton.

As a division, there have been a number of notable accomplishments in the past year:

- Our surgical critical care fellowship had three of the four spots filled this past year. John Bach, MD is staying in Columbus and will be a surgeon, intensivist at Riverside Methodist Hospital; Shelly Bansal, MD will be staying here at Ohio State and continuing her training as a cardiothoracic surgery fellow; John Leskovan, DO will be taking a faculty position at Mercy St. Vincent Medical Center in Toledo to practice trauma, general surgery and surgical critical care.
- This was the first year for our Acute Care Surgery Fellowship Program. Dr. H. Tracy Davido was the first fellow to complete this program. Dr. Davido will be joining the faculty in Acute Care Surgery at the University of Minnesota, Minneapolis, Minnesota.

- The American College of Surgeons has re-verified the Ohio State University Medical Center's Burn Center in September 2011.
- The American College of Surgeons has re-verified the Ohio State University Medical Center as a 'Level I' trauma center in May 2012, denoting it as a regional resource to care for the most critically ill and injured patients.
- The Trauma Program, under the leadership of Dr. Steven Steinberg, had 2363 trauma admissions in 2011. Over the past five years there has been a 13 percent increase in the growth of the program. Of the patients admitted 21 percent had a moderate to severe Injury Severity Score and 45 percent of the patients required at least 1 operative procedure. Of patients that arrive by EMS, 43 percent of the patients transferred in from outside hospitals and 37 percent of the patients came directly from the scene of the event.
- The Critical Care Signature Program, of which our division is a key member, continues to progress. Dr. Steinberg continues to act as co-chair of the system-wide critical care quality committee, which meets monthly.
- The division also developed a number of new patient care guidelines and protocols including a massive transfusion protocol and a cervical spine clearance protocol.

Dr. Paul R. Beery II, assistant professor of clinical surgery, is now in his third year. He is a member of the Western Trauma Association and the Eastern Association for the Surgery of Trauma. His interests include surgical education, trauma, and critical care. He is actively involved in community outreach and gave several presentations. Dr. Beery is active in the care of trauma and critically ill patients.

Dr. Charles H. Cook, associate professor of surgery, continued his research in cytomegalovirus (CMV) infections and bacterial sepsis during critical illness. His laboratory continues to focus on how cytomegalovirus reactivation causes lung injury in immunocompetent patients. In addition to his research pursuits, Dr. Cook continues to be active in the care of injured and critically ill patients; he is medical director of the Surgical Intensive Care Unit; and he is the program director for the Surgical Critical Care Fellowship Program. Dr. Cook and his manuscript, *Tree stands, not guns, are the Midwestern hunter's most dangerous weapon* were featured in the Nation section of the November 4th, 2010 issue of USA Today. As a result of this news story, Dr. Cook was subsequently quoted and the news article was recounted across the nation by more than 25 sports magazines, on-line journals, and newspapers including the Los Angeles Times. Dr. Cook was also interviewed regarding the conclusions of his study by several radio stations. He received a Division of Wildlife Award from the Ohio Department of Natural Resources, Ohio Department of Natural Resources, Columbus, Ohio.

Dr. Daniel S. Eiferman, assistant professor of surgery, joined our faculty in July 2010. He completed his surgical critical care fellowship here at The Ohio State University Medical Center 2009-2010. He has had a busy second year with many accomplishments. He received an Outstanding Contribution Award from the Department of Emergency Medicine at the Ohio State University Medical Center for the second year in a row; he continued as assistant program director of the surgical critical care fellowship; he served as

a Howard Hughes Medical Institute Clinical Mentor; he developed an ultrasound curriculum for both the surgical residents and critical care fellows; he co-developed MDT3 (Multidisciplinary Team Training for Trauma) to help improve communication and performance during Level I traumas; he will be the Chair of the Clinical Quality and Safety Committee for OSUMC beginning July 2012.

Dr. David E. Lindsey, assistant professor of clinical surgery, is now in his fifth year. Dr. Lindsey attends the Ross Heart Surgical ICU one-fourth of his clinical time and was instrumental in getting this surgical critical care service up and running at the Ross. He remains a dedicated member on the cardiovascular mortality reduction project at the Medical center. This past year he was accepted as the Associate Academic Program Director of Phase I of the new “Lead, Serve, and Inspire” medical school curriculum. He continues to be active as an ATLS Trauma Course Director along with the Committee on Trauma for the American College of Surgeons in Ohio. This year he was voted to membership in the American Association of Surgery of Trauma. The graduating Class of 2012 honored him as Class of 2012 “Outstanding Clinical Teacher” at their graduation awards ceremony. Dr. Lindsey is active in the Surgical Intensive care unit in the care of injured and critically ill patients. He attends and teaches on the Acute Care Surgery and Trauma services.

Dr. Sidney F. Miller, professor of surgery, is the director of Burn Research and Development for the OSU Burn Center. He is an authority on burn care and serves in leadership roles on local and national levels. He serves on the board of trustees of the American Burn Association and is past president of the organization. Dr. Miller represents the American burn Association to the joint disaster planning committee of the American College of Surgeons and the Department of Homeland Security. He is an editorial board member of the “Journal of Burns” and “Journal of Burn Care and Rehabilitation” and reviews regularly for the “Annals of Surgery”, “Journal of Trauma” and “Journal for Academic Surgery.” Dr. Miller currently serves on the Ohio Department of Public Safety EMS Board’s Trauma Committee and the Ohio Department of Homeland Security Interagency Response Group. Dr. Miller served as a member of the American College of Surgeons’ Committee on Trauma for 18 years as Ohio State Committee on Trauma vice-chair and chair and as Region Chief for Region V of the COT. He is a member of the external review panel for the Department of Defense Combat Casualty Care Program. This program is developing new and improved methods of evaluating and treating our injured military personnel and the work done by the Combat Casualty Care Program will be translatable to the civilian community. He was recently appointed to the Care for the Critically Injured Burn Patient Peer Review Panel of the American Institute of Biological Sciences. He is a past governor of the American College of Surgeons and a past president of the Ohio Chapter of the American College of Surgeons. Under the direction of Dr. Miller, the burn program has been established at Ohio State University. In addition to patient care the program has established an Annual Burn Survivor Family Camp and implemented the Survivors Offering Assistance in Recovery (SOAR) program which provides peer support to patients in the OSU Burn Center.

Dr. Stanislaw P. Stawicki, assistant professor of surgery, is in his fourth year. He has authored or co-authored over 140 publications including chapters, reviews, and original scientific contributions. He is one of the co-founders of OPUS 12 Foundation, an elite group of medical researchers who engage in multi-disciplinary collaborative efforts and multi-center clinical studies. In addition to being active nationally and internationally, Dr. Stawicki participates in important Medical Center committees and panels, including patient safety/sentinel event reviews, Perioperative Quality Management Committee,

Co-Chairmanship of the Formulary Committee since 2011, and Chairmanship of the ICU Technology Committee. Dr. Stawicki is actively involved in didactics, including teaching ATLS courses, lectures and presentations for surgical critical care fellows, residents, and students, as well as numerous small group discussions for both surgical critical care and trauma/emergency surgery rotations. He is active in curriculum development and has conceived the new TCCB 10-month lecture series titled "How To Do Research". He is a mentor to numerous young researchers, including local, national, and international reach. Dr. Stawicki continues to serve as Director of Research for the Division of Trauma, Critical Care, and Burn. In this role, he supervises research efforts by the division and oversees the divisional research infrastructure. In addition to being named to the Editorial Board of the World Journal of Orthopaedics and a Section Editor (Critical Sonology Science) for the Journal of Emergencies, Trauma, and Shock, Dr. Stawicki also serves as the Editor-In-Chief of the International Journal of Critical Illness and Injury Science. All of the above journals are PubMed listed.

Dr. Steven M. Steinberg, professor of surgery, is the director of the Division of Trauma, Critical Care, and Burn and is a member of the board and the clinical trauma committee of Central Ohio Trauma Systems. He also is a member of the State of Ohio Emergency Medical Services Board. He serves as the chair of University Hospital Operating Room Committee and is a member of the Health System Operating Room Coordinating Committee, Leadership Council for Clinical Quality and Safety, and the Medical Staff Officers Group for The Ohio State University Medical Center. He is an editorial board member of Selected Readings in General Surgery. He has been selected as the recipient of the American College of Surgeons/American Surgical Association Health Policy Scholarship for the year 2010. Dr. Steinberg is listed as one of the Best Doctors in America by the U.S. News and World Report. He is the first recipient of the STAR Award, (OSU Stress, Trauma, and Resilience Program), at the Wex-STAR benefit at The Ohio State University Medical Center. Dr. Steinberg is active in the implementation of the OSU Surgical Go Team, Emergency Preparedness, Community Outreach, Educational and Process Development, Collaboration between OSUMC, Grant, and Columbus Division of Fire. He continues to be actively involved in surgical education and critical care. Dr. Steinberg remains active in the care of injured and critically ill patients.

Dr. Joanne Trgovcich, research assistant professor, joined our faculty in April 2011, coming from a pathology faculty appointment. She continues her research as a NIH co-investigator on viral evasion of NK cells. This award is for \$344,042.00 and is for the period September 18, 2009 to August 31, 2013. The goal of this study is to investigate the role of murine cytomegalovirus gene products in regulation of NK cells in acute and latent infections. She also assists with ongoing work in the laboratory of Dr. Charles Cook to study murine cytomegalovirus reactivation. She is a review editor for "Frontiers in Microbial Immunology". She is a member of the American Society for Microbiology, American Association for the Advancement of Science, and American Society for Biochemistry and Molecular Biology. She is a Professor, Faculty of Medicine, at the University of Rijeka Medical School, Croatia. Dr. Trgovcich has many peer-reviewed publications.

Rebecca Coffey, RN, MSN, CNP, Burn Nurse Practitioner, is on the Nursing Research Executive Council. She is National Faculty for the Advanced Burn Life Support Class and she has been appointed to the American Burn Association's Prevention Committee. In the past year she has provided outreach education to multiple EMS, referral hospitals and emergency departments. Rebecca is currently working on her PhD in nursing.

Miranda M. Jackson, RN, BSN, MSN, ACNP-BC, Trauma Nurse Practitioner, joined our team in July of 2010. She completed her undergraduate degree at Wheeling Jesuit University in Wheeling, WV. She attended The University of Pittsburgh in Pittsburgh, PA for her graduate program for an Acute Care Nurse Practitioner with a specialty in Trauma and Emergency Preparedness. Miranda is highly trained in critical care medicine. She spends a lot of time involved in disaster management for hospitals as well as the community. She has obtained specialty training and certifications through numerous agencies, which include the Federal Management Agency (FEMA), National Incident Management System (NIMS), and the U.S. Department of Energy. Her special areas of interest include; Critical Care Medicine, Trauma and Emergency Medicine, Emergency Surgery, Bioterrorism/Disaster Preparedness training. Miranda is also certified as a Fundamentals of Critical Care Support Provider. Miranda was highly recognized by Dr. Steven Gabbe, Dr. Gordon Gee, and many of her colleagues at The Ohio State University Medical Center for her service to the community in a trauma rescue, which she assisted in providing emergent medical treatment to an accident victim in March of 2011. Miranda intends to further her education and obtain her Acute Care Nurse Practitioner Pediatric degree.

Lisa K. Koser, RN, MS, MSN, ACNP-BC, CPNP-AC, EMT-P, Acute Care Nurse Practitioner, joined our team in March of 2011. She completed her initial education as a nurse at Mount Carmel School of Nursing in Columbus, OH and earned her Baccalaureate degree at Franklin University, Columbus, OH. Lisa gained valuable experience while working in pediatric and adult Emergency Departments and Intensive Care Units settings and as a critical care transport flight nurse. She attended Excelsior College earning her MSN in Nursing Administration and Nursing Informatics before seeking her MS with a focus of Acute Care Nurse Practitioner from Wright State University, obtaining a subspecialty in trauma and cardiovascular care. She has also completed a post-masters certificate at The Ohio State University College of Nursing obtaining her Pediatric Acute Care Nurse Practitioner and working on completing her Doctorate of Nursing Practice. Lisa currently works as a Flight Nurse Practitioner and maintains numerous certifications including, FCCS Provider, CEN, CFRN, CCRN, C-NPT, NIMS and EMS Instructor. Her primary interest lies in the initial stabilization and care of the critically ill and injured patients in the pre-hospital, hospital and transport setting. Lisa is a reviewer and contributor for several peer-reviewed advanced practice and nursing journals. She is a frequent presenter at local and national conferences.

Dr. John Bach, Dr. Shelly Bansal, and Dr. John Leskovan completed their surgical critical care fellowships.

Dr. H. Tracy Davido completed her acute care surgery fellowship.

Faculty

Steven M. Steinberg, MD

Professor of Surgery; Vice Chairman for Clinical Affairs, Department of Surgery; Trauma Medical Director; Chief, Division of Trauma, Critical Care, and Burn

BSc: The Ohio State University, Columbus, Oh., 1975

MD: The Ohio State University, Columbus, Oh., 1978

Specialty Training: The Ohio State University, Columbus, Oh.

Appointment: 1999

Specialty Interests: General surgery

Research Interests: Alterations in splanchnic microcirculation in shock; hemodynamic assessment in critical illness; adequacy of hemodynamic resuscitation in shock; sepsis and organ failure; trauma



Steinberg

Paul R. Beery, II, MD

Assistant Professor of Clinical Surgery

BME: The Ohio State University, Columbus, Oh., 1992

MD: The Ohio State University, Columbus, Oh., 1999

MS: The Ohio State University, Columbus, Oh., 2005

Specialty Training: The Ohio State University, Columbus, Oh.

Appointment: 2009

Specialty Interests: Trauma, surgical critical care



Beery

Charles H. Cook, MD

Associate Professor of Surgery; Medical Director, Surgical Critical Care

BS: Pennsylvania State University, University Park, Pa., 1987

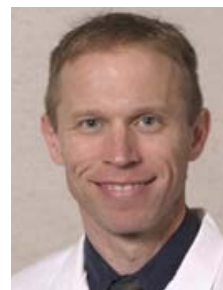
MD: The Ohio State University, Columbus, Oh., 1991

Specialty Training: The Ohio State University, Columbus, Oh.

Appointment: 1997

Specialty Interests: Critical care, laparoscopy

Research Interests: Surgical outcomes, surgical infectious disease



Cook

H. Tracy Davido, MD

Clinical Assistant Professor of Surgery

BA: Cleveland State University, Cleveland, Oh., 1992

MD: University of Pittsburgh, Pittsburgh, Pa., 2002

Specialty Training: Surgical critical care fellowship, The Ohio State University, 2008; residency in general surgery, The Ohio State University, 2011; acute care surgery fellowship, The Ohio State University, 2012

Specialty Interests: Surgical critical care, trauma and acute care surgery

Research Interests: Operating room efficiency and surgical profitability, patient safety and quality control.



Davido

Daniel S. Eiferman, MD

Assistant Professor of Surgery; Assistant Program Director of Surgical Critical Care Fellowship

BA: Northwestern University, Evanston, Il., 1999

MD: University of Kentucky, Lexington, Ky., 2003

Specialty Training: Residency in general surgery, Rush University Medical Center, Chicago, Il., 2009; research fellowship in cardiac surgery, Emory University, Atlanta, Ga., 2006; thoracic fellowship, Emory University, Atlanta, Ga., 2009; fellowship in surgical critical care, The Ohio State University, 2010

Appointment: 2010

Specialty Interests: Trauma, acute care surgery, surgical critical care

Research Interests: Critical care outcomes



Eiferman

Larry M. Jones, MD

Associate Professor of Clinical Surgery; Director, Burn Center

BA: Indiana University, Bloomington, In., 1974

MD: Indiana University School of Medicine, Bloomington, In., 1977

Specialty Training: Residency in surgery, Miami University, Dayton, Oh.

Appointment: 2011

Specialty Interests: Acute burn care, wound care, trauma surgery

Research Interests: Advanced technology applications in burn care



Jones

David E. Lindsey, MD

Assistant Professor of Clinical Surgery

BS: The Ohio State University, Columbus, Oh., 1972

MD: The Ohio State University, Columbus, Oh., 1976

Specialty Training: Stanford University Hospital, Stanford, Ca.; University of California-Davis, Sacramento, Ca.

Appointment: 2007

Specialty Interests: Critical care, cardiovascular critical care, trauma



Lindsey

Sidney F. Miller, MD

Professor of Surgery

BA: Indiana University, Bloomington, In., 1965

MD: Indiana University School of Medicine, Indianapolis, In., 1968

Specialty Training: Miami Valley Hospital, Dayton, Oh.

Appointment: 2006

Specialty Interests: Burns

Research Interests: Wound healing



Miller

Stanislaw P. Stawicki, MD

Assistant Professor of Surgery

BA: University of Louisville, Louisville, Ky., 1997

MD: University of Louisville, Louisville, Ky., 2001

Specialty Training: Residency in general surgery, St. Luke's Hospital and Health Network, Temple University Clinical Campus, Bethlehem, Pa.; fellowship in traumatology and surgical critical care, University of Pennsylvania, Philadelphia, Pa.

Appointment: 2008

Specialty Interests: Trauma, surgical critical care, emergency surgery

Research Interests: Geriatric trauma, role of comorbidities in trauma



Stawicki

Joanne Trgovcich, PhD

Research Assistant Professor

BS: Purdue University, West Lafayette, In., 1989

PhD: University of North Carolina, Chapel Hill, NC, 1996

Specialty Training: Post-doctoral research in microbiology and immunology, University of Rijeka, Croatia, 1998; post-doctoral research in pathology, molecular genetics, cellular biology, University of Chicago, Chicago, Il., 2001

Appointment: 2011

Research Interests: Molecular genetics, cellular biology, immunology



Trgovcich

Nurse Practitioners

Rebecca A. Coffey, MSN, CNP

BSN: University of Cincinnati, Cincinnati, Oh., 1978

MSN: University of Cincinnati, Cincinnati, Oh., 1982

Specialty Training: Nurse practitioner, The Ohio State University, Columbus, Oh., 1996

Appointment: 1990

Specialty Interests: Burn care, pediatric burn care, wound care



Coffey

Miranda M. Jackson, MSN, ACNP-BC

BS: Wheeling Jesuit University, Wheeling, WV

MSN: University of Pittsburgh, Pittsburgh, Pa.

Specialty Training: Federal Emergency Management Agency (FEMA), National Incident Management Systems (NIMS) and Fundamentals of Critical Care Support (FCCS) certified

Appointment: 2010

Specialty Interests: Acute care, trauma and emergency preparedness, bioterrorism and disaster management training



Jackson

Lisa K. Koser, MSN, ACNP-BC**BSN:** Mount Carmel School of Nursing/Franklin University, Columbus, Oh.**MSN:** Excelsior College, Albany, NY**MS:** Wright State University, Dayton, Oh.**Specialty Training:** ACNP subspecialty; trauma and cardiac, acute care pediatric nurse practitioner**Appointment:** 2011**Specialty Interests:** Critical care transport, pre-hospital trauma management, complex medical and surgical critical care, neonatal and pediatric critical care*Koser*

New Full-Time Faculty Appointments

H. Tracy Davido, MD

Clinical Assistant Professor of Surgery

July 2011

Larry M. Jones, MD

Assistant Professor of Clinical Surgery

July 2011

Faculty Departures

Paul R. Beery, II, MD

Assistant Professor of Clinical Surgery

Date of resignation: June 2011

Current appointment: Grant Medical Center, Columbus, Oh.

H. Tracy Davido, MD

Clinical Assistant Professor of Surgery

Date of resignation: June 2012

Current appointment: University of Minnesota, Minneapolis, Mn.

Resident Staff

John A. Bach, MD

Surgical Critical Care Fellow

BA: Miami University, Oxford, Oh., 2001

MD: University of Cincinnati College of Medicine, Cincinnati, Oh., 2005

Shelly Bansal, MD

Surgical Critical Care Fellow

BS: Youngstown State University, Youngstown, Oh., 2000

MD: Sint Eustatius School of Medicine, Netherlands Antilles, 2004

John J. Leskovan, DO

Surgical Critical Care Fellow

BS: Mount Union College, Alliance, Oh., 2001

DO: Ohio University College of Osteopathic Medicine, Athens, Oh., 2006

Mission

The mission of the Division of Critical Care, Trauma, and Burn is to improve people's lives through innovations in research, education, and patient care in the areas of surgical critical care, trauma, burns, and emergency surgery.

Research Programs

- PCR based *Clostridium difficile* toxin testing evaluation
- STOP-IT – A multi-center study of optimal length of antibiotic treatment for abdominal infections
- Comparison of the safety and efficacy of intravenous CXA-101/tazobactam and Metronidazole with that of Meropenem in complicated intraabdominal infections
- Comparison of the safety and efficacy of intravenous CXA-201 and intravenous Levofloxacin in complicated urinary tract infections, including pyelonephritis
- Intensivist bedside ultrasonography (INBU) – A prospective investigation of sonography in clinical assessment of the critically ill and injured patients
- A randomized clinical trial of restrictive versus traditional blood transfusion practice in burn patients
- Transfusion-related acute lung injury (TRALI) and West Penn resuscitation utilization in burn patients
- Use of fresh frozen plasma and the West Penn formula versus crystalloid resuscitation and the Parkland formula for resuscitation of major burns
- The effects of anticoagulants on elderly trauma patients with head injuries
- Incidence of and risks associated with polypharmacy in geriatric trauma patients
- Geriatric trauma risk assessment (GETRA) system: A post-trauma resuscitation area disposition tool

- Effects of beta blockers on outcomes in geriatric trauma patients
- An evaluation of how end-of-life decisions are made and documented
- Cytomegalovirus (CMV) infections and bacterial sepsis
- Cytomegalovirus infection in burn injury
- A multi-center study of the efficacy of SOAR: A peer support program for burn survivors
- Increasing nurses knowledge and ability to teach about burn prevention: A multi-center study
- Electrical burns and the development of post traumatic stress disorder and associated psychological sequelae: A retrospective study
- Brain markers and advanced MRI in the evaluation and treatment of electrical injured patients and its implementation for diagnosing PTSD
- Using computer based learning as a method of establishing competency in the care of high risk, low volume nursing care
- Recognition and treatment of alcohol withdrawal syndrome in burn patients: Impact on nursing care and patient outcomes using a new clinical guideline
- Disseminating organizational screening and brief interventional services (DO-SBIS): Screening of alcohol usage and brief intervention in the acute care hospital
- Prospective randomized placebo trial of pregabalin in the control of neuropathic pain in burn patients
- The implementation of a burn prevention education module for patients with autism
- The incidence and implication of elevated Hemoglobin (Hgb)A1C in burn patients
- Foreign body ingestions in predominately prisoner population: A retrospective study
- Septrafilm in open abdomens: A prospective evaluation of wound and adhesion characteristics in trauma damage control
- The use of dynamic f/Vt ratio in identification of failures of ventilatory liberation in critically ill surgical patients
- Application of financial analysis techniques to urine output and glycemic measurements in critically ill burn patients
- The role of murine cytomegalovirus (CMV) gene products in regulation of NK cells in acute and latent CMV infections
- Hemodynamic profiling of surgical ICU patients
- Intraosseous access use at burn centers
- Administration of enteral nutrition after percutaneous endoscopic gastrostomy in the surgical intensive care unit: A study of timing and temporal feeding patterns on patient outcomes
- A randomized, open-label, efficacy and safety study of Octaplex and fresh frozen plasma (FFP) in patients under vitamin K antagonist therapy with the need for urgent surgery or invasive procedures

Accomplishments in Research

- Faculty members in the division published 44 scholarly articles, abstracts and book chapters.
- Division members had 7 podium presentations at national meetings and numerous other presentations at international and national meetings by our faculty and staff.

- The division broadened the scope of its research activities to include representatives from Anesthesiology, Dietary, Pain and Palliative Medicine, Nursing, and Pharmacy. A number of collaborations were initiated during the year, including a dedicated research curriculum titled “How To Do Research” and joint clinical studies with the Department of Anesthesia.

Active Research Grants

- Anstadt MP, **Eiferman DS**, Perez-Tamayo RA. New heart failure treatment capability for remote environments; Wright State University/USA Medical Research and Material Command. May 2008 – May 2013, \$849,718.
- **Cook CH**. Bacterial Sepsis & Reactivation of Latent Cytomegalovirus. NIH RO1 GM066115, May 2003 – May 2015, \$1,200,000.
- **Cook CH**. SIS Multicenter Study of Duration of Antibiotics for Intra-abdominal infection. NIH RO1 GM081510, \$4,500.
- Justiniano C, **Stawicki SP** (faculty mentor). Comorbidity-polypharmacy score: A triage tool for determining post-emergency department destination for older trauma patients; Bennett Research Scholarship, \$3,000.
- **Lindsey DE, Stawicki SP**. A randomized, open-label, efficacy and safety study of Octaplex and fresh frozen plasma (FFP) in patients under vitamin K antagonist therapy with the need for urgent surgery or invasive procedures; Total study support \$14,129.
- **Stawicki SP**. PULSION PiCCO2 evaluation; equipment and monitoring supplies, \$75,000.
- **Stawicki SP, Cook CH**. A multicenter, double-blind, randomized, phase 2 study to compare the safety and efficacy of intravenous CXA-101/tazobactam and Metronidazole with that of Meropenem in complicated intraabdominal infections; \$23,712.
- **Stawicki SP, Cook CH**. Multicenter, Double-Blind, Randomized, Phase III Study to Compare the Safety and Efficacy of Intravenous CXA-101 / Tazobactam and Metronidazole With That of Meropenem In Complicated Urinary Tract Infections. Cubist Pharmaceuticals, Inc., \$10,000.
- **Steinberg SM**. The disseminating organizational screening and brief intervention services (DO-SBIS) at trauma centers study; \$12,000.
- **Trgovcich J**. NIH co-investigator on viral evasion of NK cells. The goal of this study is to investigate the role of murine cytomegalovirus gene products in regulation of NK cells in acute and latent infections; September 2009 – August 2013, \$344,042.

Clinical Programs

- Surgical critical care, trauma, burn, and emergency surgery.

Accomplishments in Clinical Care

- The Level I verification follows a comprehensive review of the Medical Center's practices and policies related to providing optimal care for critically ill and injured patients. The review, conducted by trauma surgeons associated with the American College of Surgeons, takes place every three years. OSU Medical Center has held a Level I designation for 19 years and was one of the first hospitals to receive the designation after the verification program started in 1987.
- A Level I trauma center must possess advanced diagnostic and treatment capabilities, including cardiopulmonary bypass, nuclear scanning and neuroradiology. The center also should have a leadership role in education, research and patient care.
- The OSU Medical Center is widely recognized for its expertise in the care of trauma patients and treats patients from throughout Ohio. It also has the only emergency department in central Ohio with hyperbaric medicine facilities and on-site physicians in more than 40 medical specialties.
- The division assumed the care of the majority of emergency general surgery patients.
- The division developed a number of new patient care guidelines and protocols including a massive transfusion protocol and a cervical spine clearance protocol.
- The Burn Program at The Ohio State University Wexner Medical Center provided their first TeleBurn consultation with their partners at Adena Regional Medical Center. TeleBurn is designed for existing patients who live regionally and allows them to receive collaborative treatment locally. At the time of the TeleBurn consultation the patient was physically located in Adena's Wound Care Center.

Clinical Statistics

OR Procedures	4,425
Outpatient Visits	2,620
Admissions	1,717
Patient Days	11,998
Average Length of Stay (Days)	7.11

Education Programs

- Fully-accredited fellowship in surgical critical care.
- The division received approval to start a fellowship in acute care surgery beginning July 1, 2011.
- The division has an approved fellowship in burns.

Accomplishments in Education

- Completion of the surgical critical care fellowships by Dr. John Bach, Dr. Shelly Bansal, and Dr. John Leskovan.
- Completion of the Acute Care Surgery fellowship by Dr. H. Tracy Davido.
- Dr. Eiferman received an Outstanding Contribution Award from the Department of Emergency Medicine at the Ohio State University Medical Center for the second year in a row.
- Dr. Eiferman served as a Howard Hughes Medical Institute Clinical Mentor.
- Dr. Eiferman developed an ultrasound curriculum for both the surgical residents and critical care fellows.
- Dr. Lindsey was awarded the “Outstanding Clinical Teacher” award by the graduating Class of 2012 at the College of Medicine graduation awards ceremony.
- Dr. Stawicki passed the Neurocritical Care certification examination.
- Dr. Stawicki is an Advisory Board Member, Maharishi Markandeshwar University Mullana, India, January 2012.

Community Outreach Programs

- Trauma injury prevention program
- Burn outreach program
- Trauma outreach program
- Local Heroes Day
- Trauma Go Team

Accomplishments in Community Outreach

- Dr. Sidney Miller was selected as The Ohio State University's representative for the 2012 Regional Outreach Scholarship/W.K. Kellogg Foundation Engagement Award and the National C. Peter Magrath University/Community Engagement Award. Established in 2006 with support from the W.K. Kellogg Foundation, the awards program seeks to identify colleges and universities that have redesigned their learning, discovery, and engagement functions to become even more involved with their communities. Five regional awardees will be chosen in early May. A cash prize of \$5,000 will be presented to each regional winner at the Association of Public and Land-grant Universities (APLU) Annual meeting in November 2012. Each regional winner will also receive \$2,500 for travel to participate in the National Outreach Scholarship Conference and to help support the production of a two minute digital "story" about their partnership to be shown at the conference and the APLU Annual Meeting. The regional winners also are provided two complimentary registrations for the National Outreach Scholarship Conference with the opportunity to compete for the national award.
- Rebecca Coffey, CNP was instrumental in securing a \$5,000 Service Board grant to support the 2011 burn survivor family camp and she will coordinate this project. Burn survivor family camp provides an opportunity for recovery, re-establishment and strengthening of the family. It provides family healing, personal growth, builds a survivor's community and provides a safe place for children of burn survivors to interact. The individuals served by this project come from all socioeconomic groups. All individuals that are served by the burn center catchment area are eligible. The catchment area served by the OSU Burn Center includes 66 out of 88 counties primarily in central, southern, and eastern Ohio. Twenty-nine of the counties in the service area are in Appalachia, the poorest economic region of the state, and opportunities for this type of camping experiences and family sharing and support are non-existent except for the burn camp.
- Rebecca Coffey, CNP has secured a \$25,000 grant from Autism Speaks for the Safe Signal Project. The Safe Signals Project was developed to assist young adults with daily living skills for greater independence and to avoid burns and scalds. High functioning individuals with Autism Spectrum Disorder possess the cognitive intelligence for adaptive behaviors such as safety skills. Project goals include developing materials in partnership with young adults on the spectrum, low-literacy materials focus on home behaviors that lead to injury, audio-visual materials that are engaging and give model behaviors using video prompts, and materials available in English and Spanish languages
- The Trauma Go Team is collaboration between OSUMC, Grant, and Columbus Division of Fire to provide an on-site trauma surgeon in the event that a trauma patient cannot be safely extricated from a scene without surgical intervention.
- The 5th Annual OSU Burn Center Family Burn Camp, under the direction of Dr. Sidney Miller, was held on August 19-21, 2011 at Camp Joy in Clarksville, Ohio. This camp brings together former burn patients and their families for a weekend of camping and team building.

- The ThinkFirst Program continues to grow with additional professional speakers, VIP's and outreach programs, under the leadership of the Central Ohio ThinkFirst Chapter Director, Ann Smith, PhD, RN, CRRN, ANP-BC. The Central Ohio ThinkFirst Chapter presented 166 programs between July 1, 2011 – June 30, 2012, reaching 2,704 youth, 7,788 teens, and 3,789 adults, for a total of 14,281.

We continued these collaborative partnerships and served on the many community-wide committees including:

- 4H CarTeens
- Columbus Police Department
- Franklin County 4H Youth Development
- Franklin County Juvenile Court
- Franklin County Safe Communities
- Franklin County Sheriff's Department
- Franklin County Teen Safety Council
- MADD Franklin County
- SafeKids Central Ohio
- SafeCommunities
- The Ohio State University Extension Office
- The Columbus Health Department
- Voices In Prevention (VIP's)
- Various K-12 schools and OSU
- Central Ohio Trauma System (COTS)
- Fatality Review Board
- Columbus Area Pedestrian Safety Committee (CAPS)
- Columbus Bicycle Safety Coalition
- Mid-Ohio Regional Planning Commission (MORPC)
- Bloom School of Driving Dynamix
- Columbus Housing Partnership
- Ohio Injury Prevention Partnership (OIPP)
- Parents are the Key Campaign
- National Safety Council Ohio Teen Safe Driving Coalition
- SADD Franklin County
- Hilliard Against Distracted Driving (HADD)
- Neighborhood Pride
- Hilltop YMCA
- LOOP (LifeLine of Ohio)
- DUI Task Force
- Ricart Ford
- Ashland Chemical
- Dublin Kiawanis
- SASSO (Student Athlete Support Services Office)
- Midwest Injury Prevention Alliance
- National Teen Safety Council
- LifeSavers

- NBC4
 - Kohl's
 - Boy/ Girl Scouts
 - Y Tribes
- Dr. Ann Smith secured a SafeKids \$225 grant to attend the Ohio Youth Occupant Conference, Dayton, Ohio, April 30-May 1, 2012. She also secured a SafeKids \$1,350 grant to attend the LifeSavers Conference, Orlando, FL, June 13-16, 2012.
 - Members of the OSU Burn Team participated in the Society of Fire Prevention Engineers' 22nd Annual Burn Center Golf Outing on October 3, 2011. Proceeds of this annual outing are used to provide medical supplies and services for burn patients.
 - Many members of the division gave talks on trauma and burn topics to EMS providers, staff of outside hospitals and other care providers throughout the state of Ohio.

Publications

Adams RC, Gunter OL, Wisler JR, Whitmill ML, Cipolla J, **Lindsey DE**, Stehly C, **Steinberg SM**, **Cook CH**, **Stawicki SP**. Dynamic Changes in respiratory frequency/ tidal volume May Predict Failures of Ventilatory Liberation in Patients on Prolonged Mechanical Ventilation. *The American Surgeon* 2012; 78(1):69-73.

Adolph MD, Frier KA, **Stawicki SPA**, Gerlach AT, Papadimos TJ. Palliative critical care in the intensive care unit: A 2011 perspective. *Int J Crit Illn Inj Sci*. 2011; 1(2):147-53.

Campbell J, **Trgovcich J**, Kincaid M, Zimmerman PD, Klenerman P, Sims S, **Cook CH**. Transient CD8-memory contraction: a potential contributor to latent cytomegalovirus reactivation. *J Leukoc Biol* 2012; Jun 22. [Epub ahead of print]

Coffey R, Everett S, **Miller S**, Brown J. End of life in the Burn/Trauma unit: A nursing perspective. *Int J Crit Illn Inj Sci*. 2011; 1(2):129-31.

Coffey R, Kulisek J, Tanda R, Chipps E. Impact of the implementation of an alcohol withdrawal guideline on patients with burn injuries. *Clin Nurse Spec*. 2011; 25(6):286-93.

Dalton RE, Tripathi RS, Abel EE, Kothari DS, Firstenberg MS, **Stawicki SP**, Papadimos TJ. Understanding critical illness polyneuropathy / myopathy in an aging society: A concise review. *HSR Proceedings in Intensive Care and Cardiovascular Anesthesia* 2012; 4(1):15-19.

Evans DC, **Stawicki SP**, **Eiferman DS**, Reilley TE, Downs JB. Physiologically Relevant Application of Airway Pressure Release Ventilation. *J Trauma* 2011; 71(1):262-3.

Evans DC, **Stawicki SP**, **David HT**, **Eiferman DS**. Obesity in Trauma Patients: Correlations of Body Mass Index with Outcomes, Injury Patterns, and Complications. *Am Surg* 2011; 77(8):1003-8.

Evans DC, Gerlach AT, Christy JM, Jarvis AM, **Lindsey DE**, Whitmill ML, **Eiferman DS**, Murphy CV, **Cook CH**, **Beery II PR**, **Steinberg SM**, **Stawicki SP**. Pre-injury polypharmacy as a predictor of outcomes in trauma patients. *Int J Crit Illn Inj Sci* 2011; 1(2):104-109.

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Justiniano CF, Evans DC, **Cook CH**, **Eiferman DS**, Gerlach AT, **Beery PR 2nd**, **Lindsey DE**, **Saum GE**, Murphy CV, **Miller SF**, Papadimos TJ, **Steinberg SM**, **Stawicki SP**. Comorbidity-Polypharmacy Score: A Novel Adjunct in Post-Emergency Department Trauma Triage. *J Surg Res* 2012 (Epub ahead of print).

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Marcinowski L, Tanguy M, Krmptotic A, Rädle B, Lisniæ VJ, Tuddenham L, Chane-Woon-Ming B, Ruzsics Z, Erhard F, Benkartek C, Babic M, Zimmer R, **Trgovcich J**, Koszinowski UH, Jonjic S, Pfeffer S, Dölken L. Degradation of Cellular miR-27 by a Novel, Highly Abundant Viral Transcript Is Important for Efficient Virus Replication In Vivo. *PLoS Pathog* 2012;8(2):e1002510.

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Miller SF. Presidential Address: Looking back in order to look ahead. *J Burn Care Res* 2012; 33(1):1-6.

Murphy CV, **Coffey R**, **Cook CH**, Gerlach AT, **Miller SF**. Early glycemic control in critically ill patients with burn injury. *J Burn Care Res* 2011; 32(6):583-90.

Murphy C, **Coffey R**. Effects of alcohol use and abuse on critically ill burn patients. *Crit Care Nurs Clin North Am* 2012; 24(1):1-7.

Papadimos TJ, **Stawicki SPA**. The death of Ivan Ilych: A blueprint for intervention at the end of life. *Int J Crit Illn Inj Sci* 2011; 1(2):125-8.

Papadimos TJ, **Stawicki SPA**. The aging paradox: How old is old and all that jazz. *J Am Geriatr Soc*. 2011; 59(10):1987-8.

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Shah NR, Mikami DJ, **Cook CH**, Manilchuk A, Hodges C, Memark VR, Volckmann ET, Hall CR, **Steinberg SM**, Needleman B, Hazey JW, Melvin WS, Narula VK. A Comparison Of Outcomes In Open Versus Laparoscopic Surgical Repair Of Recurrent Inguinal Hernia. *Surg Endosc* 2011; 25(7):2330-7.

Stawicki SPA. Guide to statistical software: meta-analysis applications. *OPUS 12 Scientist* 2011;5(1):4-5.

Stawicki SPA, Bahner DP. Evidence tables: Inferior vena cava collapsibility index (IVC-CI). *OPUS 12 Scientist*. 2012;1(1):3-5.

Steinberg SM. Cultural and religious aspects of palliative care. *Int J Crit Illn Inj Sci* 2011; 1(2):154-6.

Tulman DB, **Stawicki SP**, Papadimos TJ, Murphy CV, Bergese SD. Advances in management of acute hypertension: A concise review. *Discovery Medicine* 2012; 13(72):350.

Werman H, Erskine T, Caterino J, Riebe J, Valasek T, Members of the Trauma Committee of the State of Ohio EMS Board (including **Miller S**): Development of Statewide Geriatric Trauma Triage Criteria. *Prehospital Disaster Medicine* 2011; 26(3):1-10.

Wisler JR, Evans DC, **Cook CH**, Whitmill ML, **Beery PR II**, Gerlach AT, **Lindsey DE**, **Eiferman DS**, **Steinberg SM**, **Stawicki SPA**. Impact of pre-injury psychiatric medication use on outcomes in older trauma patients. *J Am Coll Surg* 2011; 213(3):S66.

Abstracts

Bauer KA, West JE, Goff DA, **Cook CH**, Mangino JE. Detection of *Clostridium difficile* NAP-1 by real-time polymerase chain reaction and potential association with severe disease. Interscience Conference on Antimicrobial Agents and Chemotherapy 51st Conference, Chicago, IL, September 2011.

Coffey R, Murray-Johnson L, Cloppert P, **Miller SF**. Safe signals: a burn education and prevention program for high functioning young adults with ASD. *J Burn Care Res*. April 2012;33(2):S149.

Gerlach AT, MacDermott J, Newton C, **Cook CH**, Murphy CV. *Multi-disciplinary quality improvement approach on hypoglycemia in a surgical ICU*. *Crit Care Med* 2011;39 No.12 (Suppl):abstract 463.

Moffatt-Bruce SD, Ellison EC, Anderson III HL, Balija T, Bernescu I, Cipolla J, Seamon MJ, **Cook CH**, **Steinberg SM**, **Stawicki SP**. Intravascular retained surgical items: A multi-center study of risk factors. [Abstract]. *Journal of Surgical Research* 2012; 172(2):281. New York, NY: Elsevier.

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Book Chapters

Evans DC, **Steinberg SM**. Infections of Skin, Muscle, and Soft Tissue. In: Vincent JL, Abraham E, Moore FA, Kochanek PM, Fink PM, eds. *Textbook of Critical Care*, 6th Edition. New York, NY: Elsevier; 2011:1028-1035.

Seckert CK, Lemmermann NAW, Griessel M, Buttner J, Freitag K, MJ Reddehase MJ, Hummel MA, Abesassis MI, Angulo A, Messerle M, **Cook CH**. Murine Models of Cytomegalovirus Latency and Reactivation, In *Cytomegaloviruses: Molecular Biology and Immunology*, Caister Academic Press 2012.

Wisler J, **Beery P**, **Steinberg S**, **Stawicki S**. Competing priorities in the brain injured patient: Dealing with the unexpected. In: Agrawal A, ed. *Brain Injury – Pathogenesis, Monitoring, Recovery and Management*. Rijeka, Croatia: InTech; 2012:341-54.

Wisler JR, **Stawicki SP**. Methylene blue in kidney disease. In *Hemodialysis: Different Aspects*. Edited by Goretti Penido, M. Pages 45-58. Rijeka, Croatia: Intech, 2011.

Visiting Professorships

Jones LM. Burn resuscitation formulae: back to the future. Visiting Professor, University of Pittsburgh Medical Center, Pittsburgh, Pa., March 14, 2012.

International Presentations

Lehna C, Ramos P, Myers J, **Coffey R**, Kirk E. A Web-Based Education Module Increases Burn Prevention Knowledge over Time. A presentation, *22nd STTI Congress*, Cancun, Mexico, July 11 – 14, 2011.

Miller SF, **Jones LM**, **Coffey R**, Calvitti K, He X, Droll L, Kent M, Arnold G, Gordillo G, Harper C, Baker J. Initial evaluation and stabilization of electrical Industry injuries. A live international broadcast to 13 countries in conjunction with AES Corporation, November 14 – 16, 2011.

Stawicki SP. Honorary Recognition for the Keynote Address, Trauma Life Support: The Present and The Future. Annual INDUS-EM Summit, All-India Institute of Medical Sciences, New Delhi, India, September 27 – October 3, 2011.

Stawicki SP. Twenty-first century research: Synergy in translation. Opening address at the inaugural meeting of the Indian Network for Critical Illness and Injury Translational Trial Experts, (INCIITTE) New Delhi, India, October 1, 2011.

National Presentations

Aballay A, Bohan D, Kaczorowski S, Guliano T, Barrette R, **Jones, LM**. The Western Pennsylvania Burn Center protocol for fluid resuscitation. In the proceedings of the 39th Annual Eastern Great Lakes Burn Care Conference, Pittsburgh, Pa., October 6-7, 2011.

Bidwell KL, **Coffey R**, Calvitti K, **Miller SF**, Porter K, Murphy C. (POSTER) Midazolam as Adjunctive Therapy in the Management of Procedural Pain Associated with Burn Injuries. American Burn Association 44th Annual Meeting, Seattle, Wa., April 24 – 27, 2012.

Bohan D, Kaczorowski S, Aballay A, Guliano T, Barrette R, **Jones, LM**. The Western Pennsylvania Burn Center protocol for fluid resuscitation in pediatric patients. In the proceedings of the 39th Annual Eastern Great Lakes Burn Care Conference, Pittsburgh, Pa., October 6 – 7, 2011.

Calvitti K, Murphy C, **Coffey R**, Linscott P, **Miller S**, Porshinsky B. Comparison of soap and dilute Chlorhexidine Gluconate for burn wound cleansing. In the proceedings of the 39th Annual Eastern Great Lakes Burn Care Conference, Pittsburgh, Pa., October 6 – 7, 2011.

Carraro EA, Evans DC, Phillips GS, Stawicki SP, Postoev A, Olcese V, Cook CH, Eiferman DS. Portable Chest X-Rays Add No Predictive Value In Diagnosis Of Ventilator Associated Pneumonia. In the proceedings of the 70th Annual Meeting of the American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery, Chicago, Il., September 15, 2011.

Coffey R, Murray-Johnson L, Cloppert P, Miller SF. (POSTER) Safe Signals: A Burn Education and Prevention Program for High Functioning Young Adults with ASD. American Burn Association 44th Annual Meeting, Seattle, Wa., April 24 – 27, 2012.

Justiniano CF, Evans DC, **Beery PR II**, **Lindsey DE**, Cool CH, Gerlach AT, **Saum GEA**, **Eiferman DS**, **Steinberg SM**, **Stawicki SPA**. Podium presentation. Comorbiditypolypharmacy score: a novel adjunct in post-emergency department trauma triage. 7th Annual Academic Surgical Congress, Las Vegas, NV, February 16, 2012.

Leskovan J, Justiniano C, Evans DC, **Cook CH**, **Beery PR II**, **David HT**, **Eiferman DS**, **Lindsey DE**, **Steinberg SM**, **Stawicki SP**. Podium presentation. Anion Gap As Predictor Of Trauma Outcomes: Correlations With Injury Severity, Co-Morbid Conditions, And Mortality. 7th Annual Academic Surgical Congress, Las Vegas, NV, February 16, 2012.

Lindsey DE. Panel Discussant. Use of noncontrast CT for evaluation of splenic parenchymal injuries. Central Surgical Society, Madison, Wi., March 2, 2012.

Lindsey DE. Panel Discussant. The storage defect for packaged red cells in coagulation. Central Surgical Society, Madison, Wi., March 3, 2012.

Miller SF. Trauma and Burn Care: Policy Synergies and Potential Cooperation. American Burn Association 2012 National Leadership Conference, Washington, DC, February 8, 2012.

Miller SF. Moderated a Plenary Session on Disaster Management. The American Burn Association, 44th Annual Meeting, Seattle, Wa., April 27, 2012.

Miller SF. Instructor, Disaster Management and Emergency Preparedness Course. Parkview Regional Medical Center, Fort Wayne, In., May 12, 2012.

Miller SF. Moderated a Roundtable Session. In the Aftermath of an Improvised Nuclear Detonation: Patient Considerations. Urban Area Security Initiative Homeland Security Conference, Columbus, Oo., May 24, 2012.

Miller SF. Incident command, Disaster Management and Emergency Preparedness Course. In the proceedings of the 34th Annual Advances in Trauma Meeting, Kansas City, Mo., December 8, 2011.

Miller SF. Long-term issues/recovery, Disaster Management and Emergency Preparedness Course Course. In the proceedings of the 34th Annual Advances in Trauma Meeting, Kansas City, Mo., December 8, 2011.

Moffatt-Bruce SD, Ellison EC, Anderson III HL, Balija T, Bernescu I, Cipolla J, Seamon MJ, **Cook CH, Steinberg SM, Stawicki SP.** Podium presentation. Intravascular Retained Surgical Items: A Multi-Center Study Of Risk Factors. 7th Annual Academic Surgical Congress, Las Vegas, NV, February 16, 2012.

Murphy CV, **Coffey R,** Arnholt AM, **Miller SF.** The Impact of Chronic Hyperglycemia on Glycemic Control and Clinical Outcomes Post Burn Recovery. American Burn Association 44th Annual Meeting, Seattle, Wa., April 24 – 27, 2012.

Plowcha M, Aballay A, Caswell C, Bohan D, Kaczorowski S, Guliano T, Barrette R, **Jones LM.** The Western Pennsylvania Burn Center protocol for initial nutrition assessment and recommendations. In the proceedings of the 39th Annual Eastern Great Lakes Burn Care Conference, Pittsburgh, Pa., October 6 – 7, 2011.

Wisler JR, Evans DC, **Cook CH,** Whitmill ML, **Beery PR,** Gerlach AT, **Lindsey DE, Eiferman DS, Steinberg SM, Stawicki SPA.** Impact of preinjury psychiatric medication use on outcomes in older trauma patients. In the proceedings of the American College of Surgeons' 97th Annual Clinical Congress, San Francisco, Ca., October 26, 2011.

Miscellaneous Presentations

Coffey R. Instructor, Advanced Burn Life Support Course. Physicians, Nurses, EMS at Wexner Medical Center at the Ohio State University, Columbus, Oh., June 20, 2011.

Coffey R. Burn Dressings. OSU College of Clinical Nursing Students Rotating on the Burn Service clinical in-service, Wexner Medical Center at the Ohio State University, Columbus, Oh., October 6, 2011.

Coffey R. Rehabilitation of the Burn Patient. Central Ohio Rehabilitation Nurses Society, Columbus, Oh., October 18, 2011.

Coffey R. National Faculty, Advanced Burn Life Support Course. Nationwide Children's Hospital, Columbus, Oh., November 30, 2011.

Coffey R. Burn Dressings. OSU College of Clinical Nursing Students Rotating on the Burn Service clinical in-service, Wexner Medical Center at the Ohio State University, Columbus, Oh., January 12, 2012.

Coffey R. Burn Trauma. Trauma Tactics, ED Nurses, Columbus, Oh., February 8, 2012.

Coffey R. Burns Initial Care. Heath EMS, Heath, Oh., February 13, 2012.

Coffey R. Burn Dressings. OSU College of Clinical Nursing Students Rotating on the Burn Service clinical in-service, Wexner Medical Center at the Ohio State University, Columbus, Oh., April 3, 2012.

Coffey R. Burn Dressings. OSU College of Clinical Nursing Students Rotating on the Burn Service clinical in-service, Wexner Medical Center at the Ohio State University, Columbus, Oh., April 5, 2012.

Coffey R. Unusual Burns. Bucyrus EMS Conference, Bucyrus, Oh., June 9, 2012.

Coffey R. Unusual Burns. Newark Fire Department Medic Refresher Course, Newark, Oh., June 18, 2012.

Coffey R. Instructor. Advanced Burn Life Support Course. Wexner Medical Center at the Ohio State University, Columbus, Ohio, June 29, 2012.

Coffey R., Dahman J. Burn Prevention Community Outreach. Violet Township Fire Department, Pickerington, Oh., October 9, 2011.

Gerlach AT, **Stawicki SP, Cook CH,** Adolph M. Panel Discussants. Overview of clinical research at OSU. The Ohio State University Department of Surgery, Columbus, Oh., November 11, 2011.

Jones LM. Burn Potpourri. The Annual Local Heroes Conference, Columbus, Oh., April 20, 2012.

Jones LM. Initial Management of the Burn Patient. Medical Staff Grand Rounds, Licking Memorial Hospital, Newark, Oh., June 4, 2012.

Jones LM. Instructor. Advanced Burn Life Support Course. Wexner Medical Center at the Ohio State University, Columbus, Oh., June 29, 2012.

Jones LM. New technology in burn surgery. Presented to ICU Fellows, Ohio State University Medical Center, Columbus, Oh., September 30, 2011.

Jones LM. The initial management of burns. In the proceedings of the Union County Emergency Services Association Annual EMS Conference, Marysville, Oh., October 15, 2011.

Jones LM. WBNS-TV/ONN interview on burn prevention. Fire Prevention Week, Columbus, Oh., October 3, 2011.

Jones LM. WTVN-AM/610-Radio interview regarding risk of severe burns while cooking the holiday meal, Columbus, Oh., November 24, 2011.

Jones LM. WBNS-TV/ONN interview on holiday burn prevention and the use of new a new silver-infused dressing for treatment of burns, Columbus, Oh., December 23, 2011.

Jones LM. Instructor. Advanced Trauma Life Support Student Refresher Course. Central Ohio Trauma System, Columbus, Oh., January 28, 2012.

Jones LM. Initial management of burns. Southern Ohio Medical Center, Portsmouth, Oh., February 3, 2012.

Jones LM. Initial management of burns. MedCentral Health System, Mansfield, Oh., February 14, 2012.

Jones LM. Initial management of burns. Worthington Fire Department, Worthington, Oh., February 20, 2012.

Jones LM. The initial management of burns. Genesis Hospital, Zanesville, Oh., February 22, 2012.

Jones LM. Burn resuscitation formulae: back to the future. Grand Rounds, The Wexner Medical Center at The Ohio State University, Columbus, Oh., February 23, 2012.

Jones LM. Initial management of burns. Genesis Health Care, Zanesville, Oh., March 6, 2012.

Jones LM. Initial burn management. Southern Ohio Fire & EMS School, Wilmington, Oh., March 24, 2012.

Justiniano CF, Evans DC, **Beery PR II**, **Lindsey DE**, **Cook CH**, Gerlach AT, **Saum GEA**, **Eiferman DS**, **Steinberg SM**, **Stawicki SPA**. (PPSTER) Comorbidity-polypharmacy score: a novel adjunct in post-emergency department trauma triage. Research Day at Ohio State's Wexner Medical Center, Columbus, Oh., April 19, 2012.

Lindsey DE. Invited Speaker. Perioperative care of the cardiac surgery patient. The Ohio State University Department of Pulmonary, Columbus, Oh., February 24, 2012.

Miller SF, Gerlach AT, **Stawicki SP**, **Cook CH**. Panel Discussants. Important things about getting started with clinical research (i.e. overcoming the resistance). The Ohio State University, Department of Surgery, Columbus, Oh., November 18, 2011.

Miller SF. Course Director, ATLS Provider Course. Central Ohio Trauma System. Columbus, Oh., July 14-15, 2011.

Miller SF. Management of SJS and TEN. The 4th Annual Midwestern Dermatology Resident Review Course, Columbus, Oh., August 27, 2011.

Miller SF. Burns Seldom Seen. Newark Fire Department's Annual Education Course, Newark, Oh., June 19, 2012.

Miller SF. Instructor. Advanced Burn Life Support Course. Wexner Medical Center at the Ohio State University, Columbus, Oh., June 29, 2012.

Miller SF. Initial management and care of burns and options for skin grafting. Presentation to surgical residents. Mt. Carmel West Medical Center, Columbus, Oh., December 20, 2011.

Miller SF. Instructor. Advanced Trauma Life Support Instructor Course. Central Ohio Trauma System, Columbus, Oh., February 10-11, 2012.

Miller SF. Course Director. Advanced Trauma Life Support Student Refresher Course. Central Ohio Trauma System, Columbus, Oh., March 17, 2012.

Saum GEA, Tulman DB. Preparing for and getting past the IRB. The Ohio State University Department of Surgery, Columbus, Oh., April 13, 2012.

Smith A. ThinkFirst. OSU Nursing Intern Program, Columbus, OH, June 27, 2011.

Smith A. Story time with StreetSmart. 10TV Health and Fitness Expo, Columbus, Oh., August 20-21, 2011.

Smith A. Trick or Treat Street. Hilltop YMCA, Halloween Safety Grant (\$150) from SafeKids, Columbus, Oh., October 21, 2011.

Smith A. Falls Prevention. Senior Expo at Veterans Memorial, Columbus, Oh., October 31, 2011.

Smith A. What ThinkFirst has to offer. SADD Ohio Youth Traffic Safety Conference, Columbus, Oh., March 9, 2012.

Smith A. Nursing Instructor, 735-Advanced Health Assessment. The OSU College of Nursing, Winter quarter, Columbus, Oh., January 2011 – March 2011.

Stawicki SP. Clinical research projects: Strategies and approaches. The Ohio State University Department of Surgery, Columbus, Oh., December 9, 2011.

Stawicki SP. Designing a study: Asking the right questions. The Ohio State University Department of Surgery, Columbus, Oh., February 3, 2012.

Stawicki SP. Designing a study: Methodological and advanced preparation. The Ohio State University Department of Surgery, Columbus, Oh., March 16, 2012.

Stawicki SP. Designing a study: Patient sample size estimation. The Ohio State University Department of Surgery, Columbus, Oh., March 30, 2012.

Stawicki SP. Invited presentation and panel discussion. Defining the “True” Age: What We Know... And Know Not. The Ethics for an Aging World International Conference, Continuing Medical Education Activity, the Ohio State University, Columbus, Oh., October 9, 2011.

Stawicki SP. Invited speaker and panel discussant. The aged are tougher than you think: the science. In the proceedings of the 2nd annual International Ethics for an Aging World Conference, the Ohio State University, Columbus, Oh., October 9, 2011.

Stewart T. Geriatric Trauma. Trauma Tactics, ED Nurses, Columbus, Oh., December 14, 2011.

Stewart T. Geriatric Trauma. Trauma Tactics, ED Nurses, Columbus, Oh., February 8, 2012.

Division of Vascular Diseases and Surgery



Vascular Diseases and Surgery



Patrick S. Vaccaro, MD

Chief, Division of Vascular Diseases and Surgery

The Division of Vascular Diseases and Surgery had another very productive year. We added two new surgeons to our Division and realized an increase in our operative volume. Mounir Joseph Haurani, M.D. joined us in August, 2011, after completing his vascular fellowship at the Massachusetts General Hospital and the following month Maria Litzendorf, M.D. entered the Division after completing her fellowship At The Ohio State University. Dr. Haurani is primarily at the Ross Heart and Vascular Hospital and Dr. Litzendorf is developing a vascular service at OSU East. Both have done an outstanding job assimilating into the system and we anticipate substantial contributions from both.

With the addition of two new members, we have noted a rebound in our operative volume after losing both Dr. Das and Dr. Smead last year. Our Aortic Center of Excellence (ACE) opened for operation this past year, but it is too early to tell what impact it will have on our operative volumes. We have also joined the Level One Cardiovascular Emergency System in conjunction with Cardiac Surgery and Cardiology for delivery of exemplary care to the residents of Ohio.

Dr. Jean Starr continues to generate a high clinical volume and to enroll patients in multiple clinical trials. Two more clinical trials were added pertaining to the use of a new device for the removal of atherosclerotic plaque and a new superficial femoral artery stent. Enrollment for both has just opened. She was appointed to serve as a counselor on the Midwestern Vascular Surgical Society Executive Council.

Dr. Go also remains clinical busy and to add patients to his stem cell study of patients with non-reconstructable lower extremity ischemia and his study received national television coverage. Dr. Go was instrumental in making the new Level One Cardiovascular Emergency System an operational success.

Dr. Vermilion continues to lead our robust venous practice at Vein Solutions while at the same time leading the Medical Center's utilization efforts. He has assisted Dr. Litzendorf in her efforts to promote vascular surgery at OSU East.

Dr. Satiani remains fully engaged in the educational aspects of the Division. He presided over another successful vascular symposium that drew a record number of participants and to lead the Department's practice management seminar. He was elected President of the South Asian-American Vascular Society and was appointed a member of the Ohio Commission on Minority Health by Governor Kasich. He published a nonfiction book, *An American Journey: Life Lessons for Parents of Immigrant Children*. In addition he had 14 presentations and 8 publications.

Dr. Vaccaro assumed the role of Chief-of-Staff for University Hospital and was appointed to the Auditing Committee of the Central Surgical Association. He also completed his first year pursuing his MBA at the Fisher College of Business. Last Fall he presented at the London Cardiovascular Symposium.

Dr. Cameron Rink received a National American Heart Association "Scientist Development Grant" and a second grant from the American Heart Association. Dr. Joseph Habib completed his vascular fellowship and will work in the Division of Vascular Surgery at the University of Florida in Jacksonville. Dr. Axel Thors will begin his second year of fellowship training and Dr. Nicolas Mouawad begins his first year of fellowship training coming to us from St. Joseph Mercy Hospital in Ann Arbor, Michigan, where he also obtained his MPH/MBA degrees.

Faculty

Patrick S. Vaccaro, MD

Luther M. Keith Professor of Surgery; Chief, Division of Vascular Diseases and Surgery; Program Director, Division of General Vascular Surgery; Chief of Staff Elect, University Hospital Health System

BS: Yale University, New Haven, Ct., 1971

MD: University of Cincinnati, Cincinnati, Oh., 1975

Specialty Training: General surgery residency, The Ohio State University, Columbus, Oh.; clinical fellowship in cardiothoracic surgery, Baylor College of Medicine, Houston, Tx.

Appointment: 2004

Specialty Interests: General vascular surgery, endovascular therapy

Research Interests: Endothelial cell biology, spinal cord ischemia, clinical trials



Vaccaro

Michael R. Go, MD, MS

Assistant Professor of Surgery

BS: Duke University, Durham, N.C., 1996

MD: University of Cincinnati, Cincinnati, Oh., 2000

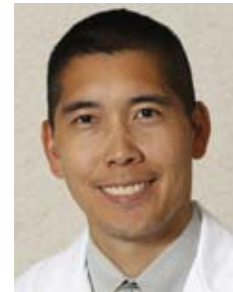
MS: The Ohio State University, Columbus, Oh., 2005

Specialty Training: General surgery residency, The Ohio State University, Columbus, Oh., 2006; Vascular and endovascular surgery fellowship, University of Pittsburgh Medical Center, Pittsburgh, Pa., 2008

Appointment: 2008

Specialty Interests: General vascular surgery, endovascular surgery

Research Interests: Endovascular surgery, stem cell therapy for limb ischemia



Go

Mounir J. Haurani, MD

Assistant Professor of Clinical Surgery

B.S.: University of Michigan, Ann Arbor, Mi., 1998

M.D.: Wayne State University School of Medicine in Detroit, Mi., 2002

Specialty Training: General surgery residency, Henry Ford Hospital, Detroit, Mi., 2009; Research fellowship, Henry Ford Hospital, Department of Hypertension and Vascular Research, Detroit, Mi., 2007, Clinical and Research Fellowship, Massachusetts General Hospital & Harvard Medical School in Boston Ma., 2011

Appointment: 2011

Specialty Interest: Thoracic, abdominal, and peripheral aneurysms, carotid disease, upper and lower extremity venous obstructive disease, peripheral vascular disease, complex endovascular revascularization and IVC filter retrieval and placement

Research Interest: Surgical education, reactive oxygen species and neointimal hyperplasia



Haurani

Maria E. Litzendorf, MD

Assistant Professor of Clinical Surgery

B.S.: College of William and Mary, Williamsburg, Va., 1999

M.D.: Eastern Virginia Medical School, Norfolk, Va., 2003

Specialty Training: General surgery residency, Boston University Medical Center, Boston Ma., 2009, Vascular surgery fellowship, The Ohio State University Medical Center, Columbus, Oh., 2011

Appointment: 2011

Specialty Interest: Peripheral vascular disease, carotid disease, venous disease, abdominal and peripheral aneurysm disease

Research Interest: Venous disease and endovascular surgery



Litzendorf

Cameron L. Rink, PhD

Assistant Professor of Surgery

BS: Hillsdale College, Hillsdale, Mi., 2000

PhD: The Ohio State University, Columbus, Oh., 2008

Post-doctoral Research, Laboratory of Molecular Medicine, The Ohio State University, 2009

Graduate Fellow, Department of Surgery, The Ohio State University, 2008

Graduate Research Assistant, Laboratory of Molecular Medicine, The Ohio State University, 2006

Graduate Fellow, Human Nutrition, The Ohio State University, 2005

Appointment: 2009

Research Interest: stroke injury, brain repair and oxygen as a key factor in stroke-mediated pathology, anti-platelet function of natural vitamin E alpha-tocotrienol



Rink

Bhagwan Satiani, MD, MBA

Professor of Clinical Surgery; Director of Non-Invasive Vascular Services

Undergraduate Degree: Shah Abdul Latif College, Mirpurkhas, Pakistan, 1964

MD: Dow Medical College, University of Karachi, Karachi, Pakistan, 1971

MBA: Franklin University, Columbus, Oh., 2002

Specialty Training: General surgery residency and trauma fellowship, Emory University, Atlanta, Ga.; vascular surgery fellowship, The Ohio State University Medical Center, Columbus, Oh.

Appointment: 2004

Specialty Interests: Noninvasive vascular diagnosis, healthcare economics, physician hospital integration, business aspects of medicine

Research Interests: Business education for physicians, workforce issues



Satiani

Jean E. Starr, MD

Associate Professor of Clinical Surgery; Director of Endovascular Services; Associate Program Director

BS: The Ohio State University, Columbus, Oh., 1985

MD: The Ohio State University, Columbus, Oh., 1989

Specialty Training: General surgery residency and vascular surgery fellowship, Cleveland Clinic, Cleveland, Oh.

Appointment: 2004

Specialty Interests: Open and endovascular surgery, interventional procedures, carotid stents

Research Interests: Endovascular aortic aneurysm repair, carotid stenting, peripheral arterial lysis



Starr

Blair D. Vermilion, MD

Associate Professor of Clinical Surgery; Associate Medical Director, Utilization Services

BS: Miami University, Oxford, Oh., 1968

MD: The Ohio State University, Columbus, Oh., 1972

Specialty Training: General surgery residency, Indiana University, Indianapolis, In.; vascular surgery fellowship, St. Anthony Hospital, Columbus, Oh.

Appointment: 2004

Specialty Interests: General vascular surgery, venous disease

Research Interests: Clinical trials



Vermilion

Emeritus Faculty

William L. Smead, M.D.

Professor Emeritus of Surgery; Luther M. Keith Professor of Surgery until 2011

B.A.: Amherst College, Amherst, Mass., 1968

M.D.: Vanderbilt University, Nashville, Tenn., 1972

Resident Staff

Joseph Habib, MD

PGY-7

BS: West Virginia University, Morgantown, WV, 2001

MD: West Virginia University School of Medicine, Morgantown, WV, 2005

Axel Thors, DO

PGY-6

BS: University of Alabama at Birmingham, Birmingham, Al., 1999

DO: Nova Southeastern University College of Osteopathic Medicine, Fort Lauderdale, Fl., 2006

Mission

The mission of the Division of Vascular Diseases & Surgery is consistent with that of The Ohio State University College of Medicine and Public Health, and includes the delivery of the highest quality of care to patients throughout Central Ohio suffering with peripheral vascular disease, the contribution to innovations in medicine through translational research and clinical outcomes studies, and the education of medical students and postgraduate trainees. Strategic planning has been a priority for us as we have focused on identifying how we can best fulfill our mission and truly create the future of medicine to improve people's lives. A key element of that focus is our commitment to leadership in personalized health care as well as to help become a high-performance organization and workplace of choice.

Active Research Grants

Go MR. Arteriocyte Inc., Commercialization of Arteriocyte's rapid bedside stem cell therapy. April 25, 2011 – May 31, 2013

Go MR, Starr JE. Terumo Medical Corporation, OSPREY Trial. A multicenter clinical trial of the misago self expanding stent system for superficial femoral artery. August 12, 2010 – June 4, 2013, \$2000

Rink CR, Malaysian Palm Oil Board, Natural tocotrienol against ischemic stroke event. Clinical trial to test tocotrienol vitamin E on platelet aggregation in healthy volunteers (Phase I), hyperlipidemics (IIA) and stroke survivors (IIB). July 1, 2011 – June 30, 2012

Starr JE, Go MR. Abbott Vascular Solutions – HERCULES. Herculink elite cobalt chromium renal stent trial to demonstrate efficacy and safety of the RX Herculink Renal Stent System. January 6, 2009 – November 1, 2012, \$9,250

Starr JE, Vaccaro PS. Cook Inc., Zenith TX2 low profile TAA endovascular graft clinical study. July 29, 2010 – July 18, 2017 \$8750

Starr JE, Haddad NJ. CVRx, Inc., CVRx Rheos pivotal trial. November 12, 2007 – September 1, 2012, \$148,190

Starr JE, Vaccaro PS. Abbott Laboratories – CHOICE Study. Carotid stenting for high surgical risk patients; evaluating outcomes through the collection of clinical evidence. April 26, 2007 – December 31, 2012 \$26,565

Starr JE, Vaccaro PS. Boston Scientific Corp., ORION Study. A trial of the EPIC Nitinol Stent System in the treatment of atherosclerotic lesions in iliac arteries. March 24, 2009 – March 23, 2015, \$32,841

Starr JE, Vaccaro PS. Cordis Corp., Sapphire Study. Stenting and angioplasty with protection in patients at high risk for endarterectomy “SAPPHIRE WW”. May 2, 2007 – December 31, 2014, \$40,142

Vaccaro PS, Cook Inc., Zenith TX2 thoracic TAA endovascular graft clinical study. February 18, 2005 – February 17, 2012, \$2,950

Vaccaro PS, Starr JE. Bolton Medical, Inc., A phase II clinical study of the safety and efficacy of the relay thoracic stent graft in patients with thoracic aortic pathologies. August 15, 2007 – August 31, 2012, \$43,471

Accomplishments in Research

- Division faculty members published 26 scholarly articles, books, chapters abstracts, and posters.
- Cameron Rink, PhD was awarded the National American Heart Association “Scientist Development Grant” (SDG) for his proposal on cerebrovascular collateral circulation during ischemic stroke.
- Dr. Mounir Haurani served as Poster Judging at the 11th annual OSUMC Trainee Research Day, Department of Surgery, Columbus, OH April 19, 2012.
- IRB approval human trial investigating the use of autologous bone marrow derived hematopoietic stem cells with platelet rich plasma to stimulate angiogenesis for the treatment of critical limb ischemia.
- Bolton Relay-initial enrollment is now complete for endovascular arm of the original study plan but we were invited to participate in the continued access portion of the Bolton Relay Trial (Protocol Version I) which will allow 50 additional subjects to be treated with the Relay Thoracic Stent Graft at up to 20 of the investigative sites participating in the trial.
- CVRx Rheos Pivotal – Enrollment is complete and we are now in the follow up phase of the trial. Subjects enrolled in the trial will be followed through FDA approval/disapproval of the device.
- We are the Second top enroller in the Boston Scientific study called ORION: A Boston Scientific trial of the EPIC Nitinol Stent System in the Treatment of Atherosclerotic Lesions in Iliac Arteries. Closed to enrollment and in the follow up phase.
- The study, HERCULES- Herculink Elite Cobalt Chromium Renal Stent Trial to Demonstrate Efficacy and Safety of the RX Herculink Renal Stent System, sponsored by Abbott Vascular, is closed to enrollment and completed the 3 year follow up phase.
- CHOICE, sponsored by Abbott Vascular, is a carotid stent registry in which enrollment has closed.

- SAPPHIRE WW, sponsored by Cordis, is a carotid stent registry in which we also currently enroll patients. Enrollment has been extended to 21,000.
- Enrollment has begun in 2 new trials- Bayer Jetstream NAVITUS post market registry which is a rotating, aspirating, expandable catheter for active removal of atherosclerotic disease and thrombus in peripheral vasculature. Boston Scientific SuperNOVA stenting of the superficial femoral and proximal popliteal arteries with a self-expanding bare metal stent system.
- COOK Zenith TX2 Low Profile Thoracic aortic aneurysm endovascular graft is open for enrollment.

Clinical Programs

- Comprehensive general vascular diseases and surgery service
- Endovascular surgery
- Laser surgery for varicose veins
- Arterial surgery clinic
- Venous surgery clinic
- Varicose vein clinic
- Dialysis clinic
- Wound care clinic
- Outlying vascular clinics in Ashland, Bellefontaine, Fayette, Marysville, and Upper Sandusky, Ohio

Accomplishments in Clinical Care

- Offering of outpatient clinic varicose vein treatment instead of hospital-based treatment
- Attending faculty in the division performed 2845 surgical procedures and received 7078 outpatient visits
- The Knightsbridge Vascular Surgery Clinic physicians and staff received their first Patient Satisfaction Achievement Quarterly Award, target score is 91.5% and the score for this clinic was 97.4%

- Offering of outpatient clinic varicose vein treatment instead of hospital-based treatment
- Dr. Patrick S. Vaccaro was elected Chief of Staff of the University Hospital Health System, Columbus, Ohio, 2011-2013
- Continuation of a high patient satisfaction score. As of April 2011, the overall assessment total was 86.8 percent
- Dr. Mounir J. Haurani passed his American Board of Surgery Certifying Exam in Vascular Surgery May 2012
- The division assumed the care of the majority of emergency vascular surgery patients – Level One CardioVascular Emergency System
- The development of the Aortic Center of Excellence, interdisciplinary team of vascular surgeons, cardiac surgeons, anesthesiologist and cardiologist to care for patients with diseases of the aorta
- Ruptured AAA Triage protocol implemented

Clinical Statistics

OR Procedures	2,845
Outpatient Visits	7,299
Admissions	698
Patient Days	2,882
Average Length of Stay (Days)	4.2

Educational Programs

- Two-year fellowship in vascular diseases and surgery, accredited in 2006 by the Accreditation Council for Graduate Medical Education.
- Comprehensive rotation in vascular diseases and surgery for junior and senior general surgery residents.
- Sub-internship in vascular diseases and surgery.
- Vascular Grand Rounds approved for Category 1 CME clinical and basic science topics discussed (bi-weekly)

- Divisional Morbidity and Mortality Conference (biweekly), Pre-Operative Case Conference (monthly), Journal Club (monthly), Endovascular M&M (monthly), Angiogram Conference (monthly), Interesting Case Conference (monthly), Research Update Conference (quarterly), Vascular Lab Lecture (quarterly) and outside speaker conference (quarterly).
- Seminar in Practice Management. Dr. Bhagwan Satiani presents this monthly business seminar to the students and residents in the Department of Surgery.

Accomplishments in Education

- Faculty have trained 25 vascular surgeons that are currently practicing in the United States and international communities through our General Vascular Surgery Fellowship Program.
- Completion of our two-year fellowship training program in vascular surgery by Joseph Habib, MD.
- Medtronic Endovascular AAA/TAA simulator at The Ohio State University for physicians and fellows training, Columbus, Oh., November 30, 2011
- Dr. Axel Thors joined the vascular surgery team as the junior fellow in our ACGME approved fellowship training program.
- Diane Gawron, RN attended the 30th Society for Vascular Nursing Annual Meeting in Tuscan, Az., on May 2 – 5, 2012.
- Dr. Michael R. Go attended the 97th American College of Surgeons Annual Meeting, San Francisco, Ca., October 23 – 26, 2011; Stem cell therapy for critical limb ischemia. Primer Impacto (Primer Impacto [First Impact] is one of the highest-rated Spanish language news programs in the United States and in 12 Latin-American countries. It airs on the Univision Network in 59 markets including all top 20 markets.), October 2011; Stem cell therapy may help PAD patients. WYTV-TV (ABC), Youngstown, Oh., October 2011; Stem cell therapy may help critical limb ischemia patients. WJBK-TV (FOX, broadcast and online), Detroit, Mi., October 2011; Stem cell therapy may help critical limb ischemia patients. WABC-TV (ABC, broadcast and online), New York, NY, October 2011; Stem cell research for treatment of critical limb ischemia. *Vascular Disease Management* (15,822 monthly circulation), 2011 Sept.; Stem cell therapy for Critical limb ischemia. WCBS-TV (CBS) New York, NY, October 2011; Invited into the STEMI Conference Planning Committee, The Ohio State University.
- Tammy Gregio, RN attended the SOCRA – Advanced Site Management Research Program Meeting, San Francisco, Ca., December 7 – 11, 2011; Zenith Clinical Investigation Research Meeting, Bloomington, In., March 4 – 6, 2012.

- Dr. Joseph H. Habib attend the 29th Annual UCLA Symposium: A Comprehensive Review and Update of What's New in Vascular and Endovascular Surgery, Hollywood, Ca., September 10 – 15, 2011; Vascular InterVentional Advanced Meeting in Las Vegas, Nv, October 17 – 22, 2011; 40th Society for Clinical Vascular Surgery Annual Meeting in Las Vegas, Nv., March 14 – 18, 2012.
- Dr. Mounir J. Haurani successfully completed the Certifying Exam in Vascular Surgery by the American Board of Surgery in Dallas, Tx., on May 21, 2012.; attended the Society for Vascular Surgery Coding and Reimbursement Workshop, Washington DC, March 22 – 25, 2012; American Board of Surgery Vascular Surgery Certifying Exam, Dallas, Tx., May 20 – 22, 2012; Society for Vascular Surgery Annual Meeting, Washington DC, June 6-9, 2012.
- Dr. Maria E. Litzendorf attended Principles of Wound Healing and Hyperbaric Medicine Workshop, Columbus, Oh., February 13 – 18, 2012; 40th Society for Clinical Vascular Surgery Annual Meeting in Las Vegas, Nv., March 14 – 18, 2012.
- Dr. Mika Mathews was presenting author “Trends in a Changing Vascular Practice Environment for Members of the Society for Vascular Surgery” at the 40th Society for Clinical Vascular Surgery Annual Meeting in Las Vegas, Nv., March 14 – 18, 2012.
- Dr. Laura Peterson's abstract was accepted for oral presentation at the 17th Annual Surgical Research Conference, The Ohio State University Medical Center, Columbus, Oh., May 25, 2012 “Influence of obesity on groin surgical suite infections after vascular surgery”; presented poster presentation Society for Vascular Surgery Annual Meeting, Washington, DC, June 7 – 9, 2012.
- Cameron Rink, PhD was awarded the Professor T.K. Hunt Award for Outstanding Early Stage Investigator, 4th Annual Translational to Clinical (T2C) Wound Care Conference; speaker at the 2nd International Conference on Tocotrienols and Chronic Disease by the Government of Malaysia, Las Vegas, Nv., July 12 – 15, 2011; Judged at the 9th Annual Russell Klein Nutrition Research Symposium, The Ohio State University; Judged at the 16th Annual Denman Undergraduate Research Forum, The Ohio State University; Judged at the 11th Annual OSUMC Trainee Research Day, The Ohio State University.
- Dawn M. Sagle attended the ACGME Annual Meeting in Orlando, Fl., March 1 – 4, 2012 and the Association of Vascular Surgery Coordinators meeting in Chicago, Il., March 30 – April 1, 2012.
- Dr. Bhagwan Satiani elected on the College of Medicine Medical School Admission Committee, The Ohio State University; attended the Society for Vascular Surgery Clinical Practice Council Meeting in Chicago, Il., December 9, 2011; paper presentation “Trends in a Changing Vascular Practice Environment for Members of the Society for Vascular Surgery” 40th Society for Clinical Vascular Surgery Annual Meeting in Las Vegas, Nv., March 14 – 18, 2012; elected on the Search Committee for a Cardiopulmonary Research, The Ohio State University Medical Center, presented at the Society for Vascular Surgery Annual Meeting “Compensation Methods and Strategies for Improving Revenue in Your Practice” Washington, DC, June 6 – 9, 2012.

- Jean E Starr was appointed to serve as Councilor on the Midwestern Vascular Surgical Society Executive Council. Nov 2011 – Nov 2014; Assisted Edheads in creating Aortic Aneurysm Surgery online activity; Appointed Medical Student Research Program Faculty Advisory Council, The Ohio State University Medical Center for 2011 – 2013; Elected member of the Heart and Vascular Executive Committee 2011 – 2013, The Ohio State University Medical Center; Attended the Medtronic Vascular Closure Meeting, San Francisco, Ca., July 20 – 21, 2012; Medtronic Fellow Technology Exchange, Minneapolis, Mn., May 4 – 6, 2012; Society for Vascular Surgery Annual Meeting, Washington, DC, June 6 – 9, 2012; invited to lead a new initiative by the Heart and Vascular Center, Chair Vascular Operations Council Committee which was developed to allow clinicians to drive operational improvements at Ohio State. The focus will be on quality, internal business/safety, finance, and satisfaction for each area.
- Dr. Axel Thors attended the Peripheral Vascular Surgery Society Annual Meeting, Vail, Co., January 27 – 29, 2012; Medtronic Fellow Technology Exchange, Minneapolis, Mn., May 4 – 6, 2012
- Dr. Patrick S. Vaccaro was elected member of Product Value Analysis Team, Cardiovascular Services, The Ohio State University Medical Center, for 18 months starting in February 2012; presented at the London Cardiovascular Symposium 2011, London, England, October 28 – 29, 2011; Society for Vascular Surgery Annual Meeting, Washington, DC, June 6-9, 2012; appointed to Audit Committee Central Surgical Association.
- Dr. Blair D. Vermilion attended the 9th World Congress Leadership Summit, Orlando, Fl., March 22 – 26, 2012; Medical Executive Committee Institute, ACHE Meeting in Chicago, Il., June 7 – 9, 2012.
- Erin Zahorujko, PA attended PANCE/PANRE Exam Review Course, Chicago, Il., May 5 – 7, 2012.

Community Outreach Programs

Presentation of regular lectures on vascular diseases to The Ohio State University Wexner Medical Center, College of Medicine, Department of Surgery, hospital board meetings, medical staff meetings, grand rounds, M&M, medical society meetings, and the division's vascular symposiums.

Accomplishments in Community Outreach

- Dr. Mounir Haurani asked to do Editorial review of journal article for *Catheterization and Cardiovascular Interventions Journals*; appointment with Society for Vascular Surgery, Young Surgeons Advisory Committee June 2012 – June 2015.
- Dr. Maria Litzendorf was featured in an article in the *Columbus Dispatch* "Ohio State's Ross Heart Hospital is Central Ohio's Best Choice for Women's Health Care" April 22, 2012.

- Dr. Bhagwan Satiani was elected President of the South Asian American Vascular Society for 2011-2012, the society was formed to maintain the identity of members from South Asia to promote the dissemination of knowledge and provide a forum for scientific, educational, cultural, charitable and social interaction among the members; TV taping regarding domestic violence, Global Columbus TV show, Columbus, Oh., July 6, 2011 7:00 – 7:30 p.m.; Study Predicts Surgeon Shortage, Calls For More Part-Timers. WOSU-TV Columbus, Oh., October 17, 2011; Character of wife carried couple far. The *Columbus Dispatch*, November 26, 2011; Attended Breakfast with a Health Care Futurist. Health Executive Meeting, Society of Marketing Professional Services, Columbus, OH October 19, 2011; Co-director, planner and moderator of the Controversies in Vascular Surgery and 4th Annual Non-Invasive Vascular Symposium, at The Ohio State University Medical Center, Columbus, Oh., October 7 – 8, 2011; Journey to Innovation, The Ohio State University Medical Center, Medical Center's Diversity Council, (video series highlighting physicians and faculty members at The Ohio State University Medical Center who were born in countries other than the United States), WOSU, Columbus, Oh., November 2011; Was appointed a member of the Ohio Commission on Minority Health by Gov. John Kasich. The Commission funds projects that are innovative, culturally sensitive and specific in their approach toward reducing the incidence and severity of diseases or conditions that are responsible for excess morbidity and mortality in minority populations. Commissioner's work with offices throughout the state to eliminate disparities that result in premature disability and loss of life for many Ohioans; Was awarded with the Community Service Award from Association of Physicians of Pakistani Descent of North America, Ohio Chapter April 2012; Your Practice Administrative Costs: What's Your Cost of Getting Paid? Part II. Kareao Web-Based Medical Billing Software. May 2012; Invited to the Search Committee for Radiologic Sciences/Respiratory Therapy – School of Health & Rehabilitation Sciences, The Ohio State University.
- Dr. Jean Starr was broadcast on NBC 4 TV WCMH. Matters of the Heart – Treating Vascular Disease. Columbus, OH February 28, 2012; Featured in an article in the *Columbus Dispatch* "Ohio State's Ross Heart Hospital is Central Ohio's Best Choice for Women's Health Care" April 22, 2012; appointment with Society for Vascular Surgery, Postgraduate Education Committee June 2012 – June 2015.
- Dr. Patrick Vaccaro elected member of the Practitioner Evaluation Committee 2011 – 2012 for The Ohio State University Medical Center Health System; conducted fellowship interviews for the American College of Surgeons Ohio District #3 Committee on Applicants, April 16, 2012; chaired American College of Surgeons, Ohio Chapter # 3 Fellow applicant Interviews, April 16, 2012; elected to serve on the Auditing Committee for the Central Surgical Association Executive Council

Publications

Go, MR. Critical limb ischemia trial begins. The Ohio State University Medical Center, Department of Surgery, *Surgery Today*. 2011 Aug; 20(3):10.

Aburahma AF, Campbell JE, Mousa AY, Hass SM, Stone PA, Jain A, Nanjundappa A, Dean LS, Keiffer T, **Habib J.** Clinical outcomes for hostile versus favorable aortic neck anatomy in endovascular aortic aneurysm repair using modular devices. *J Vasc Surg*. 2011 Jul;54(1):13-21. [Epub 2011 Feb 16]

Litzendorf ME, Hoang K, **Vaccaro PS.** Recurrent and Extensive Vascular Malformation in a Patient with Bannayan-Riley-Ruvalcaba Syndrome. *Ann Vasc Surg*. 2011;1-5.

Litzendorf ME, **Satiani B.** Superficial venous thrombosis: disease progression and evolving treatment approaches. *Vascular Health and Risk Management*. 2011 Aug;7:569-575

Patel V, **Rink C**, Khanna S, Sen CK. Tocotrienols: the lesser known form of natural vitamin E. *Indian J Exp Biol*. 2011 Oct;49(10):732-8.

Rink C, Patel V, Gordillo GM, Khanna S, Gnyawali U, Roy S, Shneker B, Ganesh K, Phillips. G, More JL, Sarkar A, Kirkpatrick R, Elkhammas EA, Klatte E, Miller M, Firstenberg MS, Chiocca EA, Nesaretnam K, Sen CK. Oral tocotrienols are transported to human tissue and delay the progression of the model for end-stage liver disease score in patients. *J Nutrition*. 2012 Mar;142(3):513-9.

Rink C, Christoforids G, Khanna S, Peterson L, Patel Y, Khanna S, Abduljalil A, Irfanoglu O, Machiraju R, Bergdall VK, Sen CK. Tocotrienol vitamin E protects against preclinical canine ischemic stroke by inducing arteriogenesis. *J Cereb Blood Flow Metab*. 2011 Nov;31(11):2218-30.

Satiani B, Kiser D, Mason T. Turnaround time and timeliness of physician interpretation in the Vascular Laboratory. *Vascular and Endovascular Surgery*. 46(2) 167-171.

Satiani B. Surgeon shortage has some advocating for job-sharing part-timers. *Business First*, September 29, 2011.

Satiani B. Part-time surgeons would help ease shortage. *American Medical News*, September 28, 2011.

Satiani B, Motew S, Darling C, Jain K, Wixon C, Johnson B, Weiss V, Gable D. Changing practice paradigms: Negotiating your future. *Society for Vascular Surgery*. 2012;55:1206-12.

Satiani B, Kiser D, Mason T. Turnaround time and timeliness of physician interpretation in the Vascular Laboratory. *Vascular and Endovascular Surgery* 46(2) 167-171.

Smith V, Peterson L, **Starr J**, **Satiani B.** External Iliac Artery Stenting: High Incidence of Concomitant Revascularization Procedures. *Vascular and Endovascular Surgery*. 2012 Apr;00(0)1-5.

Williams TE, Satiani B, Ellison EC. A comparison of future recruitment needs in urban and rural hospitals: The rural imperative. *Surgery*. 2011;150(4):617-625.

Abstracts

Peterson L. Influence of obesity on groin surgical site infections after vascular surgery. 17th Annual Surgical Research Conference, The Ohio State University Medical Center, Columbus, OH May 25, 2012

Book Chapters

Satiani B. *An American Journey: Life Lessons for Parents of Immigrant Children*. Rowman & Littlefield, November 2011.

Book Chapters

Rink C, Khanna S, Sen CK. Arachidonic acid metabolism and lipid peroxidation in stroke: alpha-tocotrienol as a unique therapeutic agent. *Studies on Experimental Models: Oxidative Stress in Applied Basic Research and Clinical Practice*. Humana Press, 2011. Volume 1: pp. 63 – 90. ISBN 978-1-60761-955-0.

Satiani B, Litzendorf ME. Approaches to and management of varicose veins. *Manual of Vascular Disease*. Second edition, eds: Rajagopalan S, Dean SM, Mohler ER, Mukherjee D, Wolters Kluwer Health. 2012.

Interdisciplinary Lectures

Steven Dean, DO, Program Director, Vascular Medicine, Director Stoneridge Cardiology Peripheral Vascular Laboratory, The Ohio State University. Vascular Jeopardy. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Surgery Grand Rounds, Columbus, Oh., February 13, 2012.

Kevin Evans, PhD. Associate Professor, Health and Rehab Sciences, The Ohio State University Medical Center. ARDMS update. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, 4th Annual Vascular Non-invasive Testing Symposium, Columbus, Oh., October 8, 2011.

Vicki Gatz, RVT. University of Kentucky Hospital, Lexington, KY. Tips and Tricks for visceral scanning. & Why pay attention to ergonomics? The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, 4th Annual Vascular Non-invasive Testing Symposium, Columbus, Oh., October 8, 2011.

Dennis Kiser, RVT. Lead Tech, Ross Heart Hospital. ICAVL update. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, 4th Annual Vascular Non-invasive Testing Symposium, Columbus, Oh., October 8, 2011.

Terry Needham, RVT. Needham Vascular Consultants, Chattanooga, TN. The effects of cardiac disease upon vascular lab findings. & The current role of physiological extremity arterial testing. & Interesting cases: Test your knowledge. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, 4th Annual Vascular Non-invasive Testing Symposium, Columbus, Oh., October 8, 2011.

Nicholas Polley Peripheral Vascular Surgery SSI Reduction Study by Perioperative Blood Glucose Optimization. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., September 26, 2011.

Rachel Witherspoon, RVT. Mount Carmel Health System, Columbus, OH. Visceral cases: Potpourri. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, 4th Annual Vascular Non-invasive Testing Symposium, Columbus, Oh., October 8, 2011.

International Presentations

Vaccaro, PS. How can the mortality from visceral ischemia be reduced? London Cardiovascular Symposium 2011, United Kingdom, England London October 28- 29, 2011.

National Presentations

Peterson, L. Influence of obesity on groin surgical suite infections after vascular surgery. Poster presented at the Society for Vascular Surgery Annual Meeting, Washington, DC, June 7 – 9, 2012

Rink C, Christoforidis G, Khanna S, Peterson L, Patel Y, Abduljalil A, Irfanoglu O, Machiraju R, Bergdall V, Sen CK. Natural vitamin E alpha-tocotrienol protects against ischemic stroke by inducing arteriogenesis. Society for Neuroscience 41st Annual Meeting, Washington, DC, November 13, 2012.

Starr, JE. Endovascular Treatment of Abdominal and Thoracic Aneurysm. The Ohio State University Medical Center, American Society of Clinical Anatomists Meeting, Surgery and Technology Meetings Anatomy, Columbus, Oh., July 16, 2011.

Satiani, B. Compensation Methods for Physician Employment Contracts. Breakout Session on Compensation Methods and Strategies for Improving Revenue in Your Practice, Society for Vascular Surgery Annual Meeting, Washington, D.C. Wednesday, June 6, 2012

Miscellaneous Presentations

Go, MR. Histopathologic Features of Non-arteriosclerotic Disease of the Aorta & Arteries. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., July 25, 2011.

Go, MR. I can put a stent in anything these days! The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7, 2011.

Go, MR. Ultrasound Brachial Artery Reactivity Testing (UBART). The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, 4th Annual Vascular Non-invasive Testing Symposium, Columbus, Oh., October 8, 2011.

Go, MR. Statistics for the Clinician and Surgeon. The Ohio State University Medical Center, Department of Surgery, Surgery Grand Rounds, Columbus, Oh., November 10, 2011.

Go, MR. Moderator - Vascular Dog Lab for Honors Students, The Ohio State University, Department of Surgery, Columbus, Oh., April 10, 2012.

Go, MR. Statistics for the Vascular Surgeon. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., April 30, 2012.

Habib, JH. Endothelial Cells. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., December 5, 2011.

Habib, JH. Response of the Arterial Wall to Injury & Intimal Hyperplasia. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., April 2, 2012

Haurani, MJ. Open aorto-femoral bypass remains the gold standard for Aorto-iliac disease. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7, 2011.

Haurani, MJ. Peripheral Vascular Disease. The Ohio State University Medical Center, Department of Surgery, Professor Conference, Columbus, Oh., March 8, 2012

Haurani, MJ. Thoracic Outlet Syndrome. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., October 24, 2011.

Haurani, MJ. Compartment Syndrome. Ross Heart Hospital 5th Floor In-Service, Columbus, Oh., October 26, 2011.

Haurani, MJ. Thrombectomy and Thrombolysis for acute limb ischemia. The Ohio State University Medical Center, Ross Heart Hospital 5th Floor In-Service, Columbus, Oh., March 28, 2012.

Haurani, MJ. Carotid Artery Disease. OSU MedNet 21 CME Webcast, Columbus, Oh., March 30, 2012.

Haurani, MJ. Complications of Vascular Therapy. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., April 9, 2012.

Haurani, MJ. Amputation. The Ohio State University, Department of Physical Medicine and Rehabilitation, Prosthetics and Orthotics Course, Columbus, Oh., May 30, 2012.

Litzendorf, ME. Thrombolysis is clearly more advantageous than medical management for acute iliofemoral DVT. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7, 2011.

Litzendorf ME. Surgical Clinical Correlates in Anatomy, The Ohio State University Medical Center Med 1's Anatomy Course, Columbus, Oh., October 12, 2011.

Litzendorf, ME. Macrophages & Platelets. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., November 7, 2011.

Litzendorf, ME. Carotid Artery Disease. OSU MedNet 21 CME Webcast, Columbus, Oh., March 30, 2012.

Litzendorf, ME. Atherosclerosis: Theories of Etiology & Pathogenesis. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., April 23, 2012.

Litzendorf, ME. Carotid Artery Diseases. The Ohio State University Wexner Medical Center, Ross Heart Hospital, 5th Floor In-Service, Columbus, Oh., June 13, 2012.

Rink C, Christoforidis G, Khanna S, Peterson L, Patel Y, Abduljalil A, Irfanoglu O, Machiraju R, Bergdall V, Sen CK. Natural vitamin E alpha-tocotrienol protects against ischemic stroke by inducing arteriogenesis. 6th Annual Davis Heart and Lung Research Day, The Ohio State University, Columbus, Oh., October 11 2011.

Satiani, B. Program regarding domestic violence. Global Columbus TV show, 7:00 – 7:30 p.m., Columbus, Oh., July 6, 2011 .

Satiani, B. Lower Extremity Duplex Venous Examination. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., July 25, 2011.

Satiani, B. Time value of money. The Ohio State University Medical Center, Department of Plastic Surgery, Grand Rounds, Columbus, Oh., September 2, 2011.

Satiani, B. Overview of Vascular Diseases. The Ohio State University Medical Center, Department of Surgery, Med III Student Lecture, Columbus, Oh., September 26, 2011.

Satiani, B. Gender & Ethnic Diversity in Vascular Surgery. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7, 2011.

Satiani, B. Timeliness of physician interpretation in the lab. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, 4th Annual Vascular Non-invasive Testing Symposium, Columbus, Oh., October 8, 2011.

Satiani B. Carotid Duplex Examination Part 1. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., October 31, 2011.

Satiani, B. OSU study suggests part-timers can alleviate surgeon shortage. Columbus Metropolitan Club. Columbus, Oh., September 28, 2011.

Satiani, B. The impact of Employment of Part-Time Surgeons on the Expected Surgeon Shortage. JACS Study, Columbus, Oh., September 29, 2011.

Satiani, B. Personal Finance and Financial Advisors. The Ohio State University Medical Center, Department of Plastic Surgery, Columbus, Oh., November 4, 2011.

Satiani, B. Healthcare legal regulations. The Ohio State University Medical Center, Department of Surgery, Seminars in Practice Management, Columbus, Oh., November 10, 2011.

Satiani, B. Venous Disease. The Ohio State University Medical Center, Department of Surgery, Professor Conference, Columbus, Oh., February 9, 2012.

Satiani, B. Peripheral Arterial Physiologic Testing. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., March 26, 2012.

Satiani, B featured in The Ohio State University Wexner Medical Center, Journey to Innovation, video that highlights 12 outstanding foreign-born physicians inspiring stories and contribution to medicine, Columbus, Oh., April 4, 2012.

Starr, JE. Hemostatis, Surgical Bleeding & Transfusion. The Ohio State University Medical Center, Department of Surgery, Basic Science Conference, Columbus, Oh., August 4, 2011.

Starr, JE. Why would anyone want a neck scar with the advent of carotid stenting? The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7, 2011.

Starr, JE. Thrombolysis for acute DVT: Value of venous duplex scanning. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, 4th Annual Vascular Non-invasive Testing Symposium, Columbus, Oh., October 8, 2011.

Starr, JE. Renal Artery Disease. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Vascular Grand Rounds, Columbus, Oh., October 10, 2011.

Starr, JE. Venous Thromboembolic Disease. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., March 5, 2012.

Thors, A. Molecular Biology. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., August 8, 2011.

Thors, A. Extremity Amputation. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., January 23, 2012.

Vaccaro, PS. Management of Vascular Trauma. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., September 12, 2011.

Vaccaro, PS. Surgical Stripping is the gold standard. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7, 2011.

Vaccaro, PS. Vascular in General Q&A. 5th Floor Ross Heart Hospital Inservice, Columbus, Oh., January 4, 2012.

Vaccaro, PS. Aorta & Great Vessels, The Ohio State University Medical Center, Department of Surgery, Professor Conference, Columbus, Oh., February 23, 2012.

Vaccaro, PS. The Management of the Patient with Thoracic Type B Dissection, 8th Annual Vascular Symposium, OhioHealth, Columbus, Oh., May 11, 2012.

Vermilion, BD. Hemodynamics & Atherosclerosis. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., July 11, 2011.

Vermilion, BD. Endovenous ablation has replaced stripping techniques. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7, 2011.

Vermilion, BD. Arterial & Vascular Graft Infection. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., December 12, 2011.

Vermilion, BD. Indications for and Complications of AAA Surgery. Ross 5th Floor In-service, The Ohio State University, Columbus, Oh., May 9, 2012.

Vermilion, BD. Chronic Venous Insufficiency & Lymphedema. The Ohio State University Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, Oh., May 14, 2012.

Distinguished Visitors

Ali AbuRahma MD

Chief of Vascular Surgery at the Charleston Area Medical Center, Charleston West Virginia. Open carotid endarterectomy is the gold standard for carotid stenosis; Endovascular intervention has made aorto-bifemoral bypass a relic of the past; Is post carotid endarterectomy duplex surveillance necessary?; Carotid duplex criteria post stenting. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7 – 8, 2011.

Daniel G. Clair MD

Chairman/Program Director and Professor of Surgery at The Cleveland Clinic, Department of Vascular Surgery. Update of Fenestrated Endografts. Mid Ohio Endovascular Club meeting, Ohio Union, Columbus, Oh., January 19, 2012.

Hamdy M. Elsayed-Awad MD

Assistant Professor of Anesthesia, Department of Anesthesia, The Ohio State University. Ischemic Spinal Cord Injury. Vascular Grand Rounds, Division of Vascular Diseases & Surgery, The Ohio State University, Columbus, Oh., June 18, 2012.

Natalie Evan, MD

Sections of Vascular Medicine and Preventive Cardiology, Department of Cardiovascular Medicine, Cleveland Clinic. Medical management is the gold standard for acute iliofemoral DVT & Medical management is the gold standard for renal artery stenosis. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7, 2011.

George Meier MD

Professor of Surgery, Chief and Program Director at the University of Cincinnati College of Medicine. Open surgical intervention remains the gold standard for critical limb ischemia. & Endovascular intervention is a better option for renal artery stenosis. The Ohio State University Heart and Vascular Center and Division of Vascular Diseases and Surgery, Controversies in Vascular Diseases Seminar, Columbus, Oh., October 7, 2011.

John Ricotta MD

Chairman of the Department of Surgery at Washington Hospital Center in Washington D.C. Acute Conditions of the Thoracic Aorta: Diagnosis and Management. Mid Ohio Endovascular Club Meeting, Ohio Union, Columbus, Oh., May 16, 2012; Changing paradigms in vascular surgery training. Department of Surgery Grand Rounds/Luther M. Keith Lecture, Columbus, Oh., May 17, 2012.

Ali Shahriari MD

Assistant Professor, Indiana University School of Medicine, Indianapolis, IN. Complex Endovascular Zenith Flex. In-service for Division of Vascular Diseases & Surgery, The Ohio State University, Columbus, Oh., January 20, 2012.

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